RESTRICTED

ONI 41-42

JAPANESE NAVAL VESSELS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION

NAVY DEPARTMENT — OFFICE OF THE CHIEF OF NAVAL OPERATIONS — WASHINGTON

NOVEMBER 9, 1942

ONI 41-42—JAPANESE NAVAL VESSELS

1. ONI 41-42, Japanese Naval Vessels, is now issued for the first time in the standard loose-leaf form so as to provide greater flexibility and to permit it being incorporated, in whole or part, in the standard U. S. Navy Task Binder. For greater compactness the earlier separate editions of ONI 41 (Surface Views) and ONI 42 (Aerial Views) are now combined for the first time in one manual.

2. As presently issued, ONI 41-42 does not provide complete coverage for the Japanese Navy, and the older editions should be retained until all extant ships described therein have been issued in the new edition. Thereafter the older manuals can be retained or disposed of as the Commanding Officer may elect. A Table of Contents, to be included in an early shipment, will serve as a guide in determining the coverage of this new manual at all times. Under the ever-changing conditions of war it is not now possible, and it never will be possible, to provide complete and definitive coverage for any of the world's navies. While old ships are being lost and new ships are being completed, the vessels in service are constantly being altered in appearance.

3. While the first purpose of all these ONI manuals on the men-of-war of the principal naval powers is for timely and unmistakable identification and the early estimation of target angle, it is believed that they can be of great tactical value. This and future editions, therefore, will include not only photographs and other illustrations but will contain data regarding the military characteristics of enemy men-of-war. Through these publications and similar media the Division of Naval Intelligence for several months has been trying to provide the fighting forces with all possible information that will assist them in determining whether the stranger is friend or foe and, if the latter, to provide the data for striking under favorable conditions or otherwise reaching a sound decision.

4. ONI 41-42 is being prepared from the best information available to the Navy Department. In the main it is based upon published material and reconnaissance photographs. Except for fragmentary addenda which may be uncovered, the first source has been exhausted. It is expected that future editions will derive largely from reconnaissance photographs and contributions (sketches and descriptions) from combat personnel. Thus, since the proper means are at hand for analyzing, processing, publishing and promptly distributing these manuals, their value will be almost entirely dependent upon the quantity and quality of material received from the Front.

/S/ H. C. TRAIN
CAPTAIN, U. S. NAVY
DIRECTOR OF NAVAL INTELLIGENCE

IN REPLY REFER TO INITIALS AND NO.
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HISTORY OF JAPANESE NAVY

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SM 5–8 I 121 CLASS

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OCA 4, 5 IWATE CLASS
OCA 6 KASUGA

CM 1 TOKIWA
CM 2 KATSURIKI
CM 3 SHIRATAKA
CM 4 ITSUKUSHIMA
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UNCLASSIFIED TYPES
DISTRICTS CRAFT

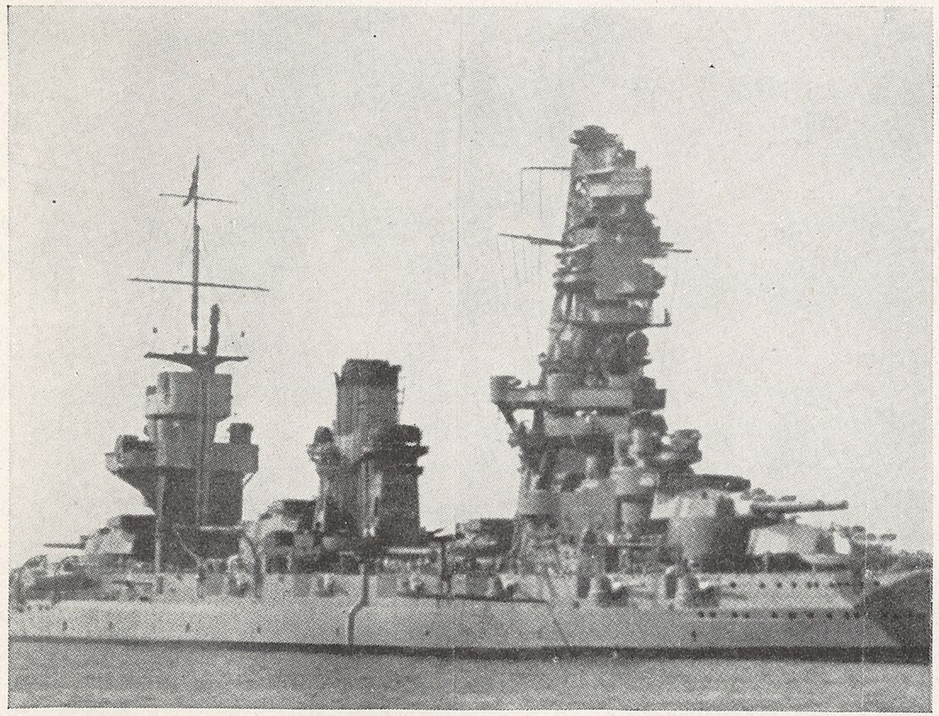
AERIAL VIEWS

MISCELLANEOUS PHOTOGRAPHS

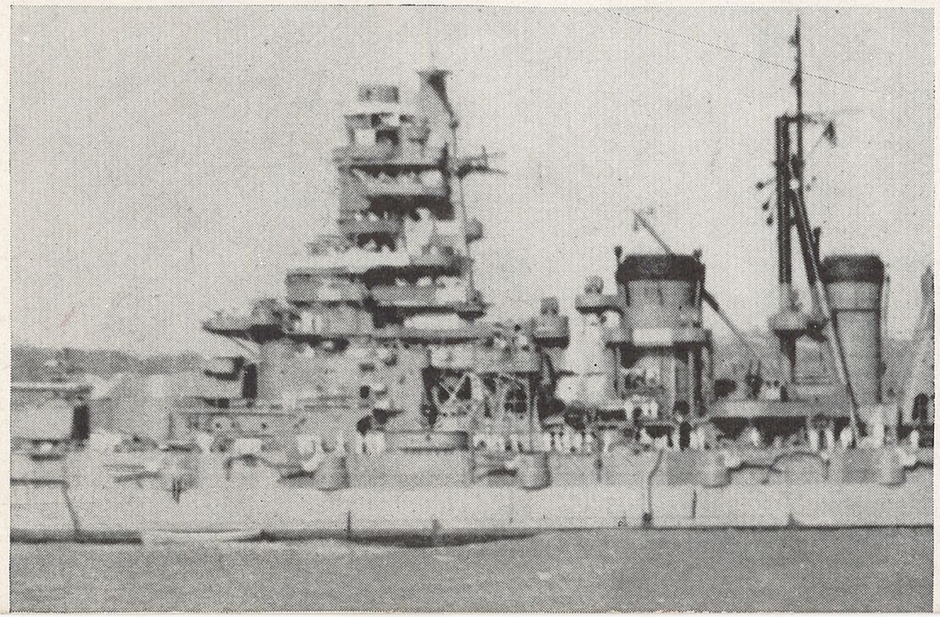
NEW SHIPS HITHERTO UNKNOWN

JAPANESE BATTLESHIPS

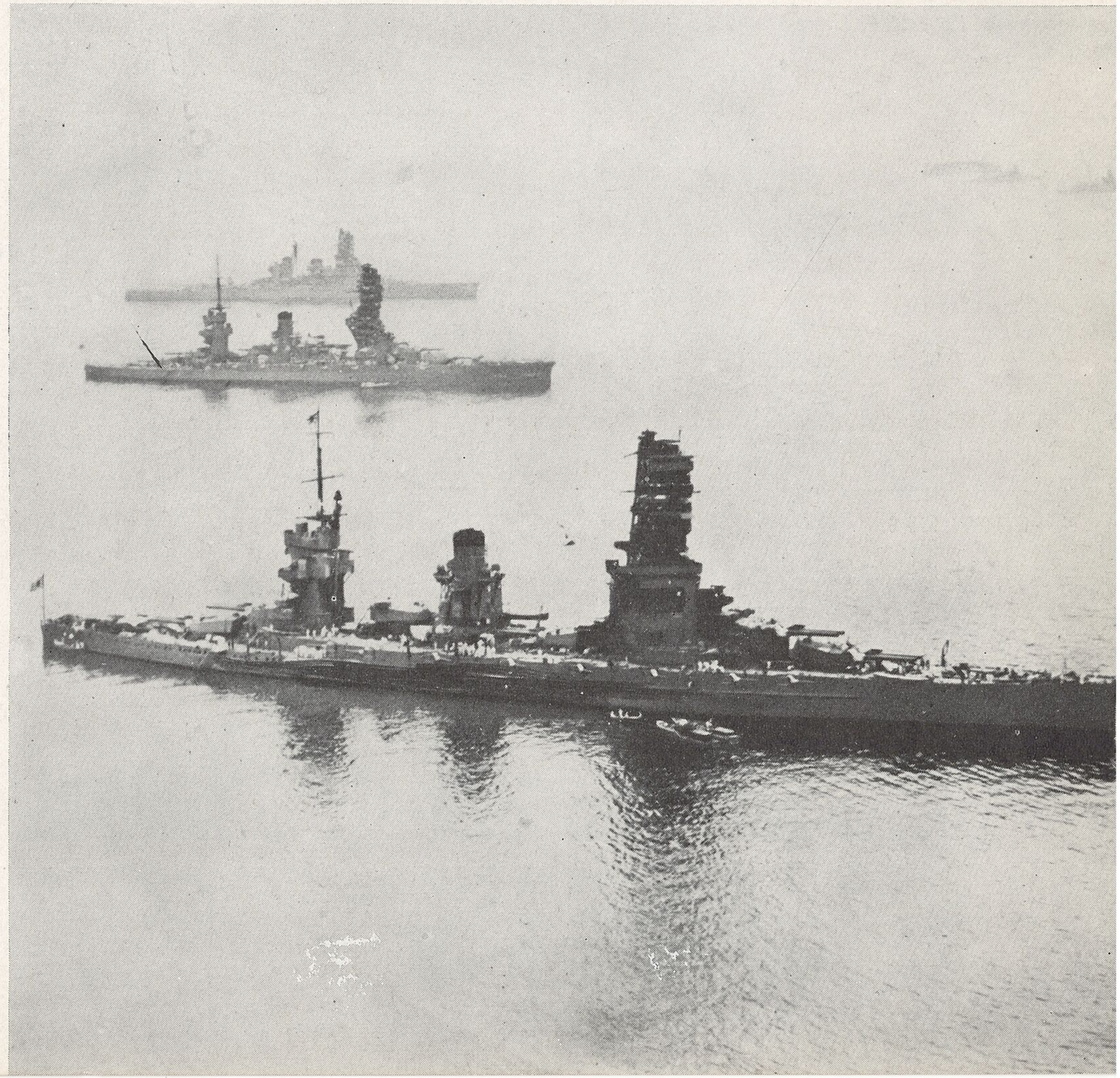
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943



↓ KONGO CLASS



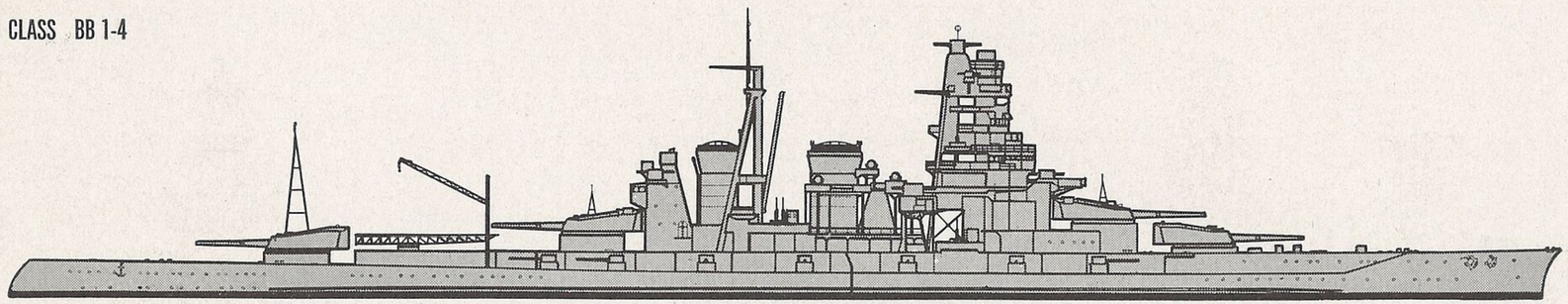
↑ FUSO CLASS →

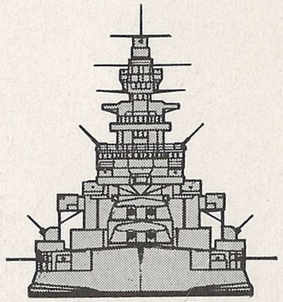


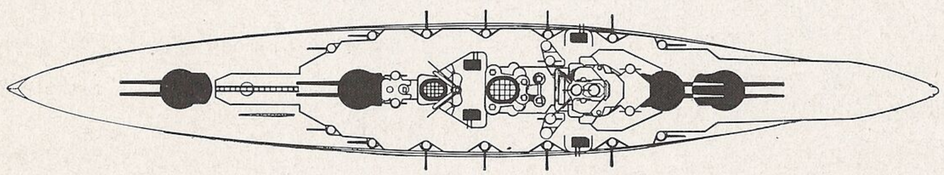
JAPANESE BATTLESHIPS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

KONGO CLASS BB 1-4



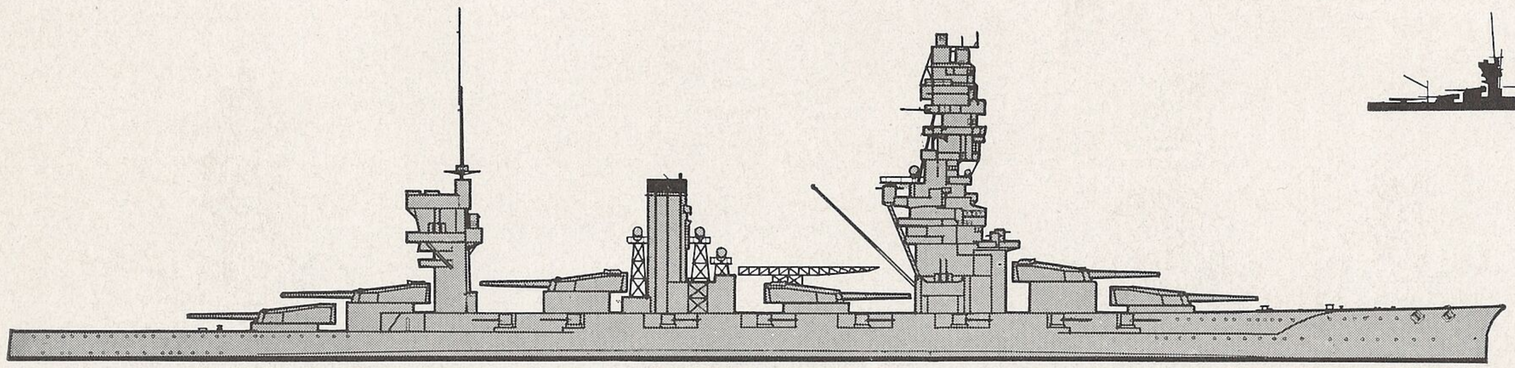




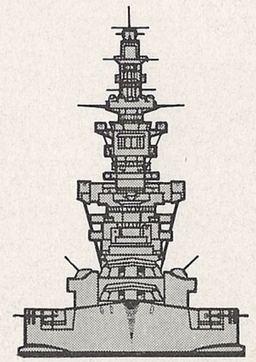
LENGTH— 704′ OA BEAM—95′
DISPLACEMENT—29,300 TONS (STANDARD)
MAIN BATTERY— 8–14″

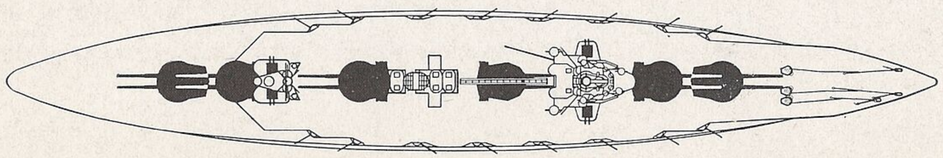
Only class of BB's with two stacks. Note mainmast forward of No. 2 stack, 2A-1-1 main battery disposition. Pagoda foremast relatively low and massive, blending with No. 1 stack.

FUSO CLASS BB 5, 6



YAMASHIRO





LENGTH—673′ OA—665′ WL BEAM—94′
DISPLACEMENT—29,330 TONS (STANDARD)
MAIN BATTERY— 12–14″

Note distinctive 2A-1-1-2 main battery disposition, with turrets fore and aft of stack. Very tall, relatively slender pagoda foremast. Locations of catapults differentiate two ships of class.

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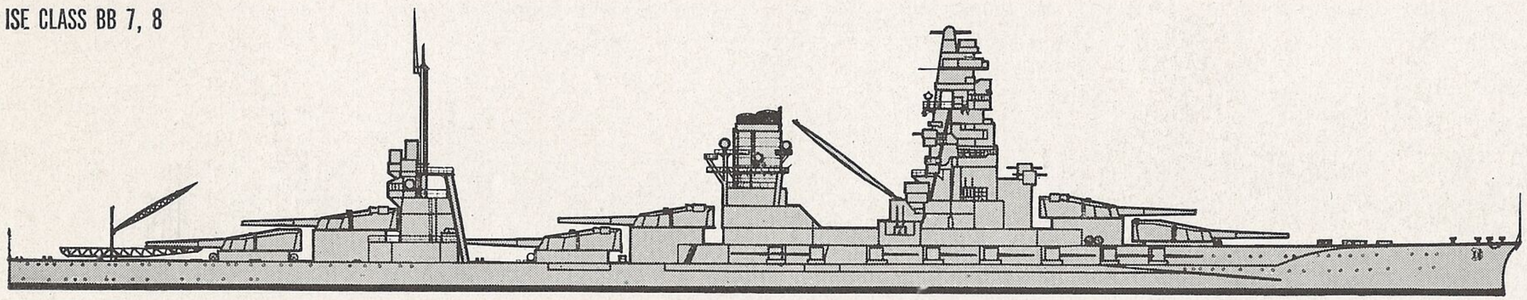
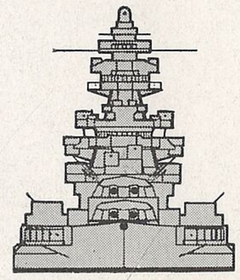
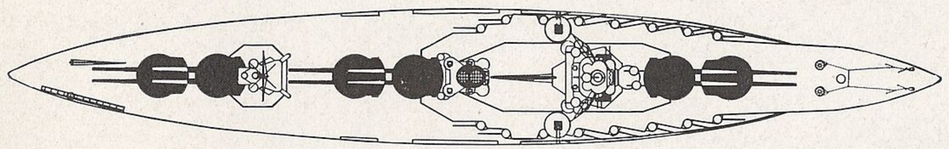
ISE CLASS BB 7, 8



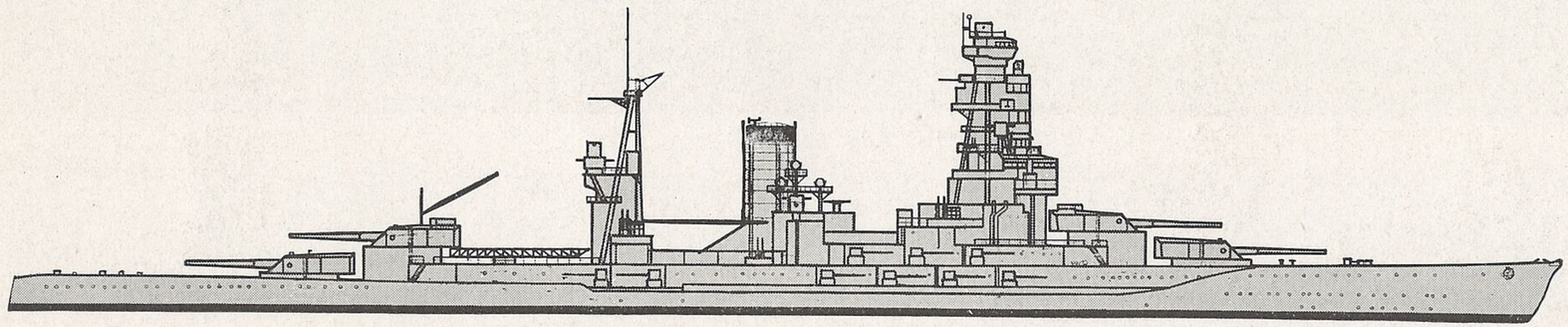


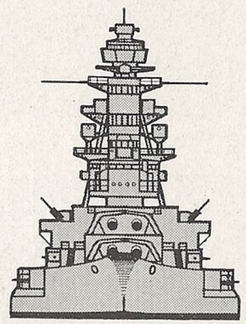


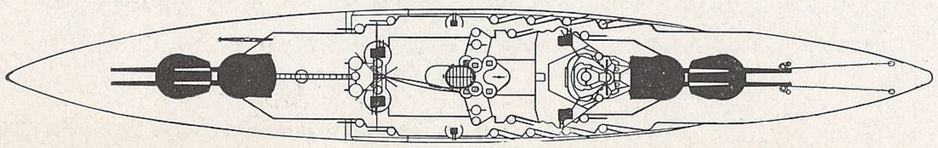
LENGTH— 683′ OA BEAM—94′
DISPLACEMENT—29,990 TONS (STANDARD)
MAIN BATTERY— 12–14″

Note 2A–2–2 armament disposition, with superimposed turrets between stack and mainmast. Hull breaks amidships, forward of stack.

NAGATO CLASS BB 9, 10







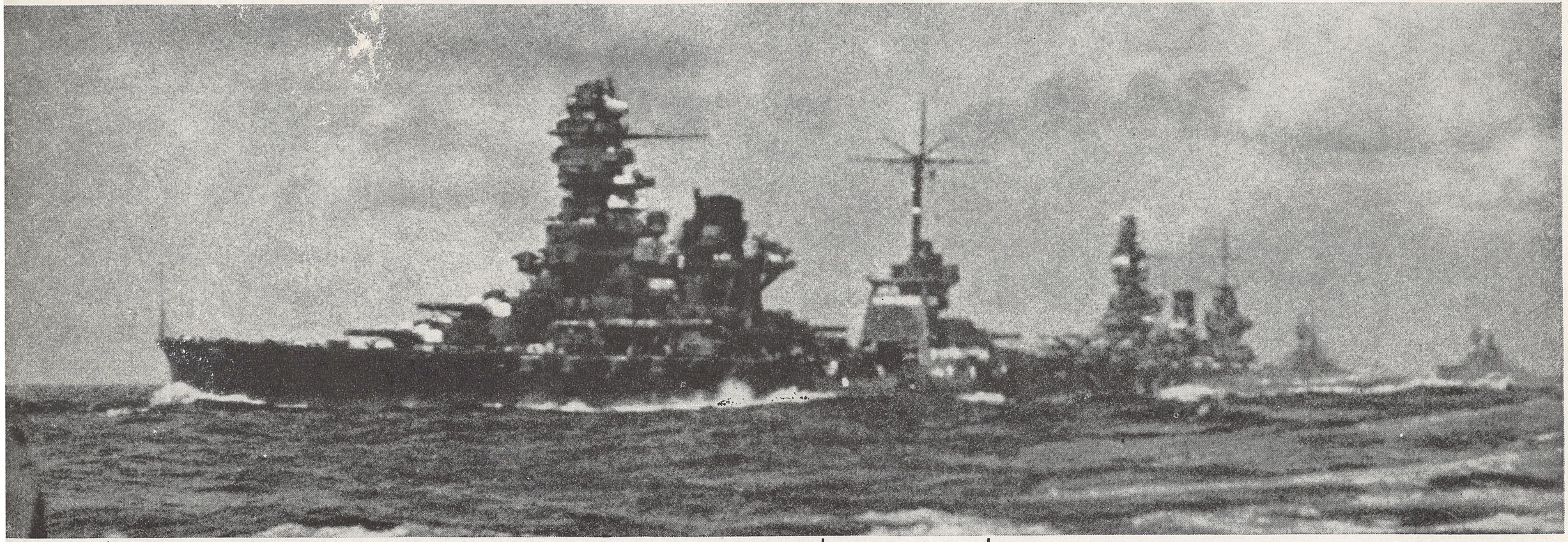
LENGTH— 700′ OA BEAM—95′
DISPLACEMENT—32,720 TONS (STANDARD)
MAIN BATTERY— 8–16″

2A–2 main battery disposition. Note that masts and stack are more closely grouped than in FUSO or ISE Classes.

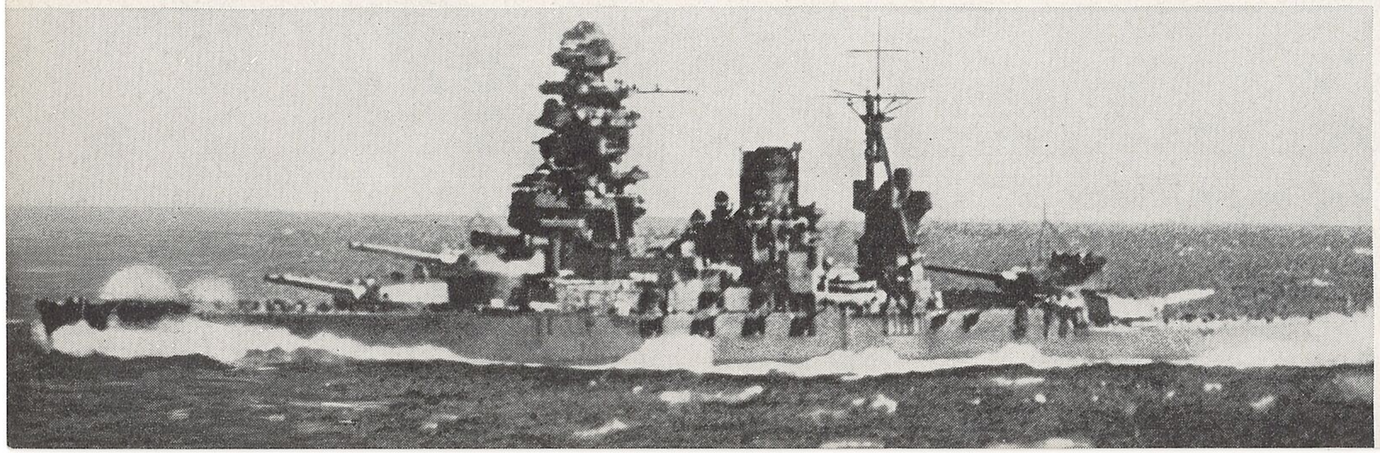
JAPANESE BATTLESHIPS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

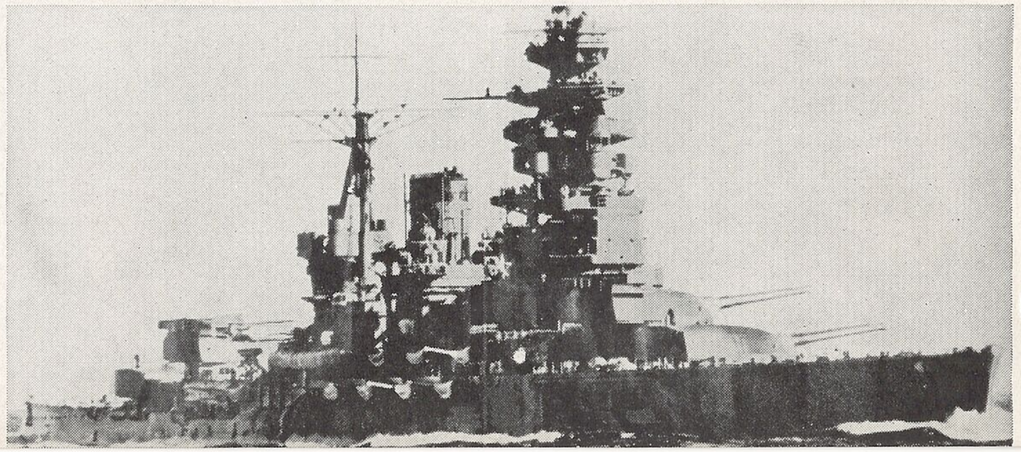
RESTRICTED **ONI 41-42**



↑ ISE CLASS FOLLOWED BY FUSO CLASS

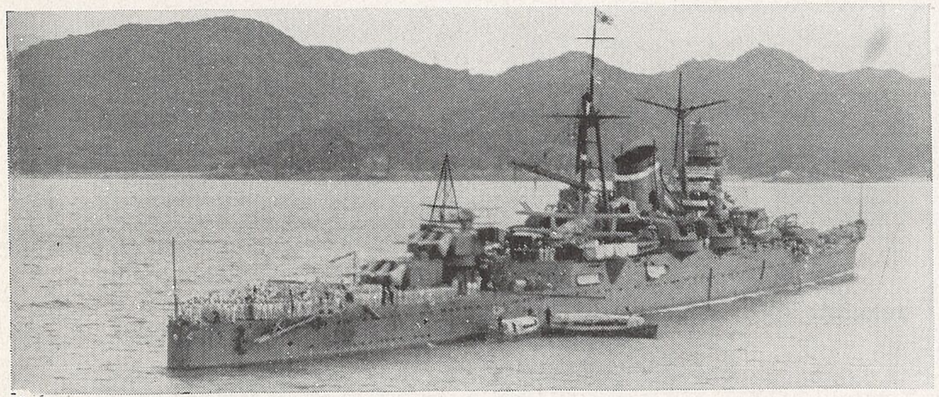


↓ NAGATO CLASS ↓

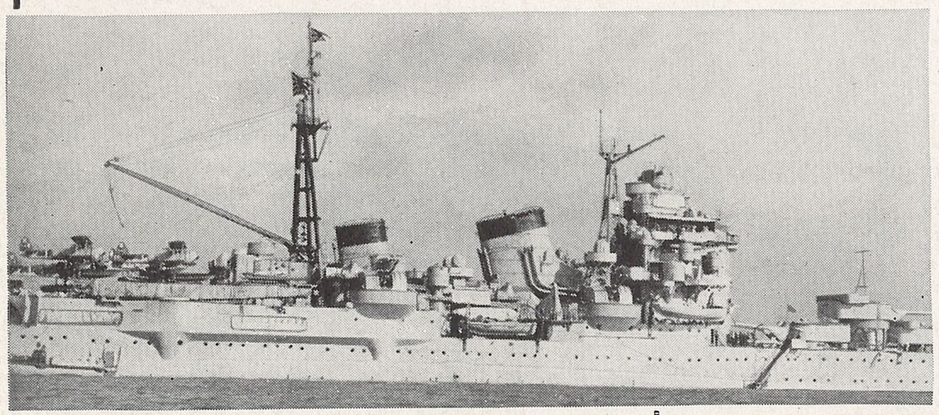


JAPANESE HEAVY CRUISERS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

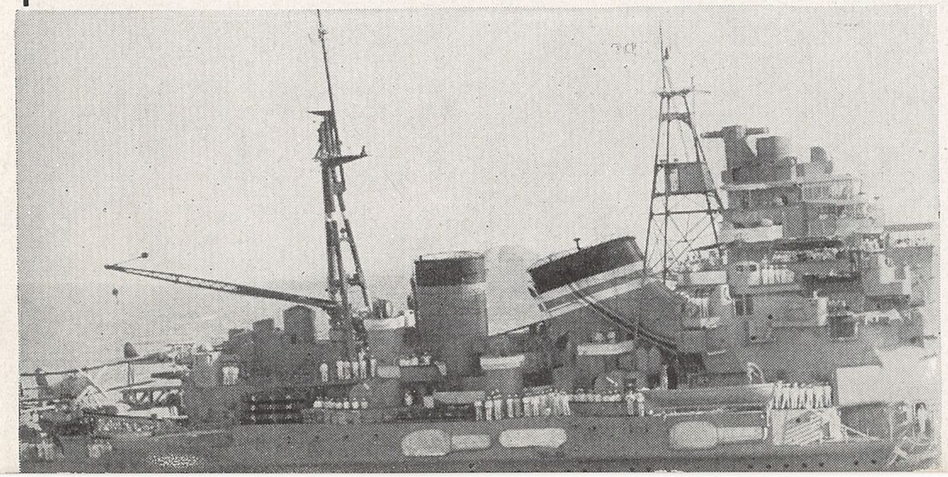


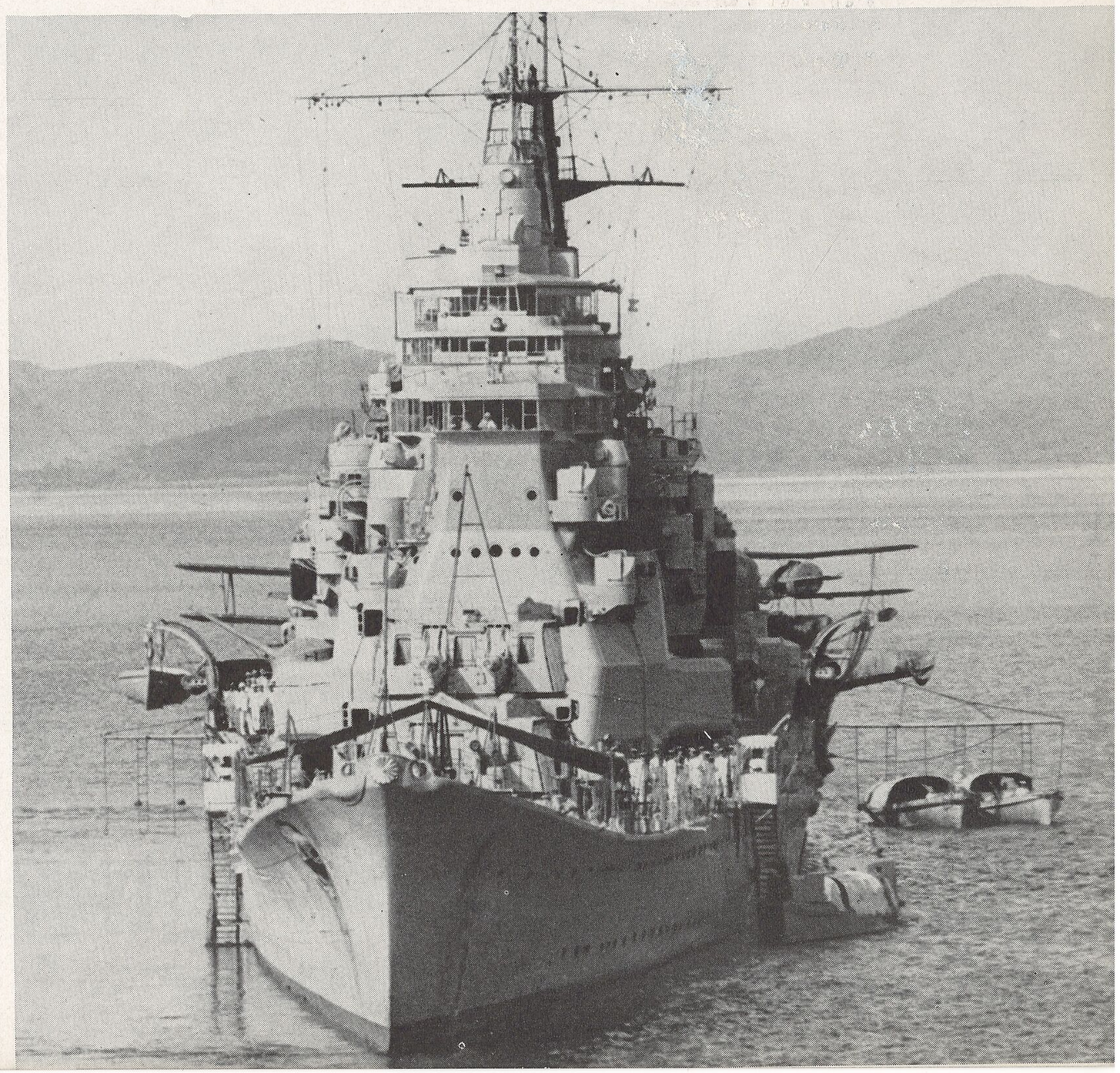
↑ MOGAMI CLASS



↑ NACHI CLASS

↓ ATAGO CLASS →



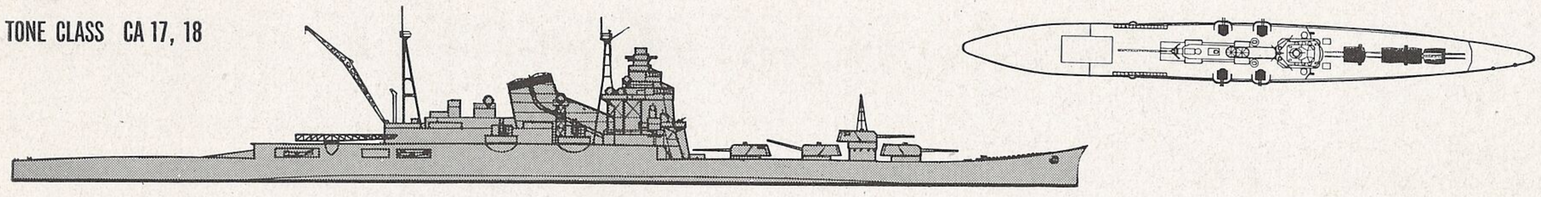


JAPANESE HEAVY CRUISERS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

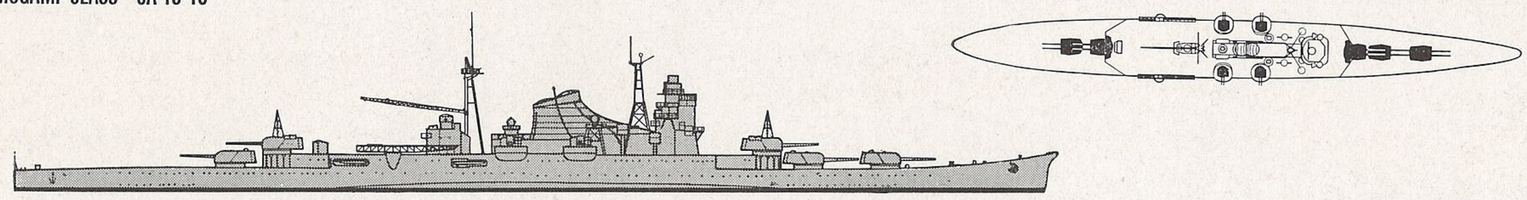
ONI 41-42

TONE CLASS CA 17, 18



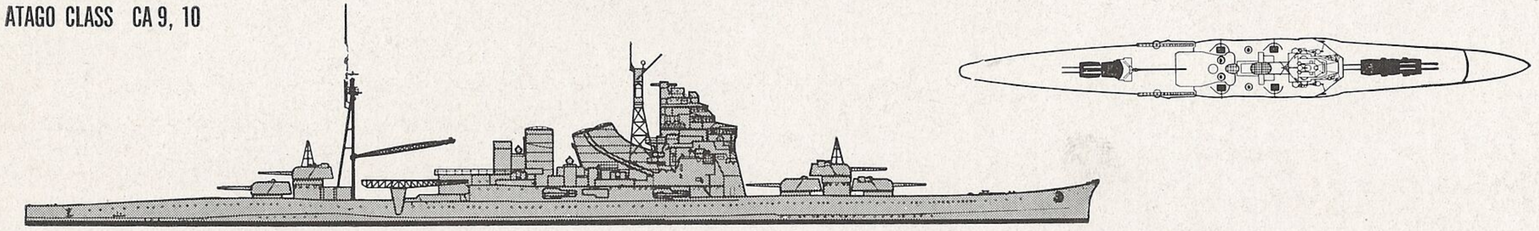
Four main battery turrets grouped forward (2-1-1A). Only class in existence with this turret disposition. Single Jap raked stack with long trunk forward. Aircraft carried aft, shifted on ramp.

MOGAMI CLASS CA 13-16



Very heavy single Jap raked stack. Relatively small bridge structure. 1-2A-2 main battery disposition.

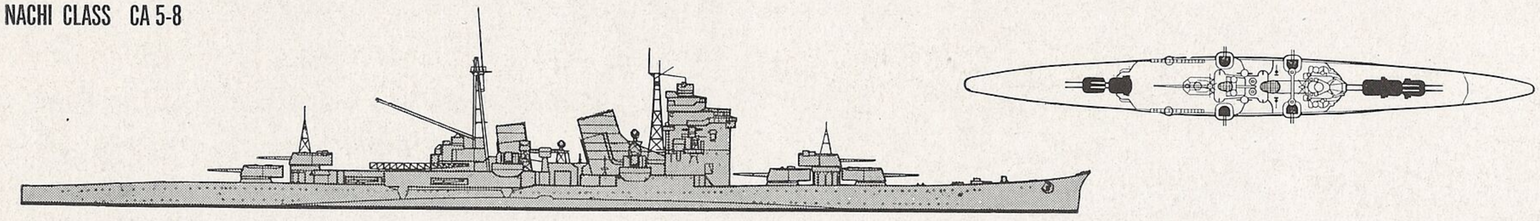
ATAGO CLASS CA 9, 10



Bulky bridge structure. Wide pylon foremast, mainmast at deck break (CHOKAI, MAYA), aft in Atago, Takao. 2-1 A-2 main battery disposition.

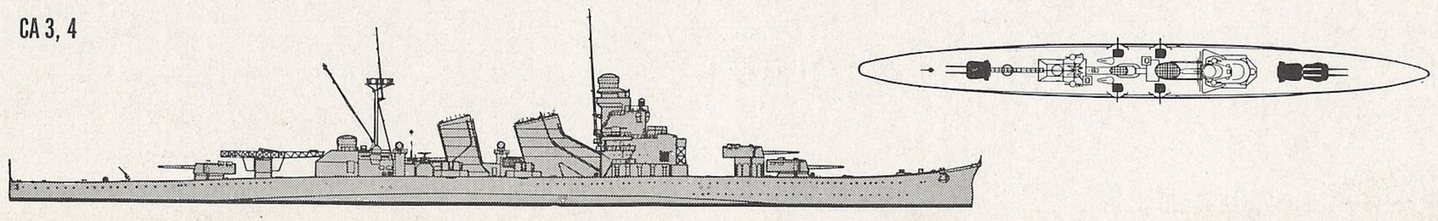
ATAGO CLASS CA 11, 12

NACHI CLASS CA 5-8



Large vertical bridge structure. Light pylon foremast. Upper deck extends aft to No. 4 turret. (Compare ATAGO's).

AOBA CLASS CA 3, 4

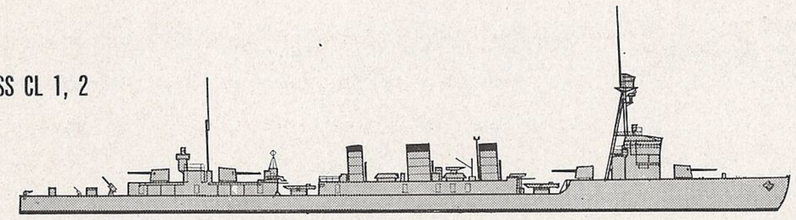


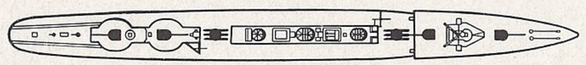
Flush deck. Note 2A-1 main battery disposition. Pole foremast. Irregular bridge structure. Catapult forward of No. 3 turret.

JAPANESE LIGHT CRUISERS

RESTRICTED

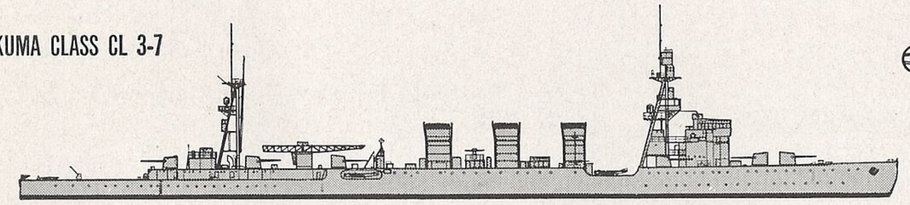
TENRYU CLASS CL 1, 2





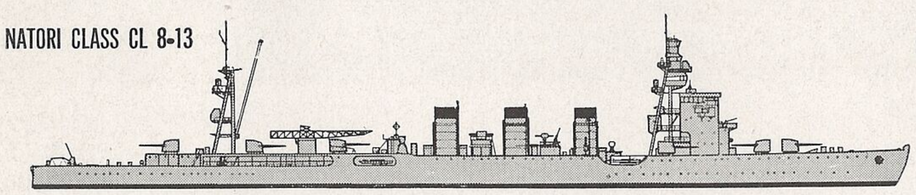
Hull broken forward. 1A–1–1–1 main battery disposition. No. 2 turret just abaft bridge structure. Stacks of unequal size. Tripod foremast, pole mainmast. Very small box-like bridge structure.

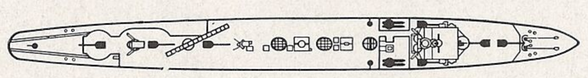
KUMA CLASS CL 3-7



Deck well between foremast and No. 1 stack. 1–1 A–1–1–1 main battery disposition. Prominent catapult forward of tripod mainmast. Relatively low bridge. Flared stacks on Kuma, OI only.

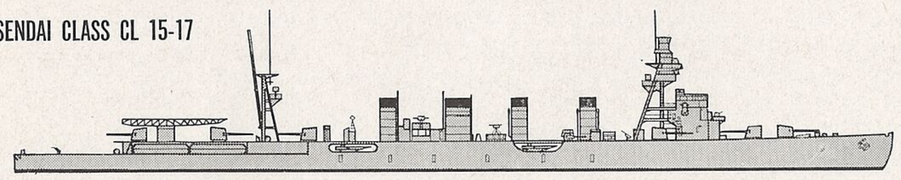
NATORI CLASS CL 8-13

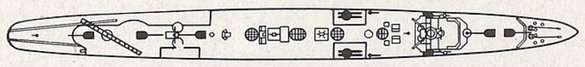




Similar to KUMA's. Bridge somewhat higher. No flare to stack tops. Note aft deckhouse differences to Kuma. Some units have cutter bows, others hooked.

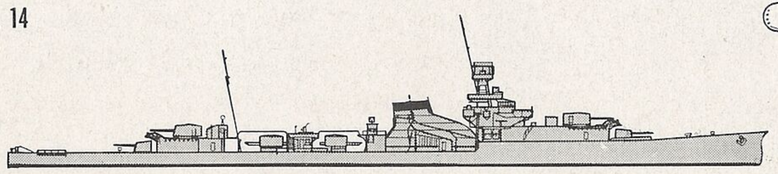
SENDAI CLASS CL 15-17

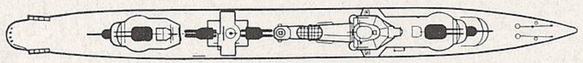




No. 1, 2 and 4 stacks thin, heavy No. 3 stack. 1–1A–1–1–1 main battery disposition. Prominent catapult abaft mainmast, reverse tripod between No. 4 and No. 5 turrets.
Bows vary as in Natori's.

YUBARI CLASS CL 14



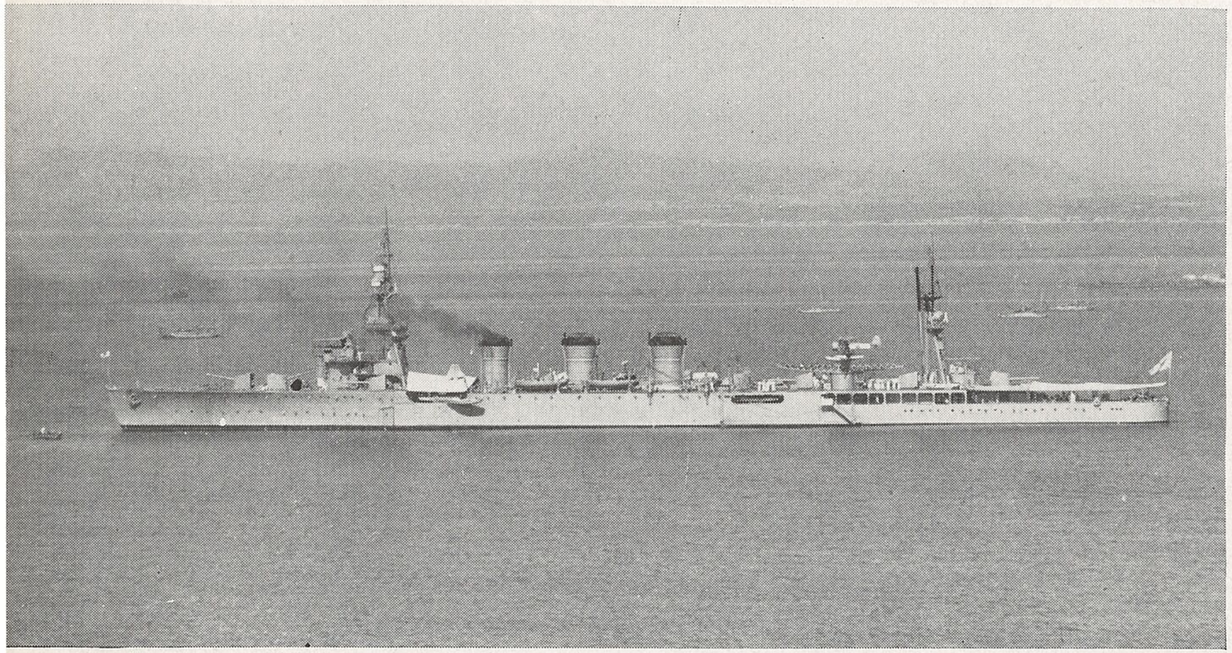


Very heavy Jap raked stack. Long deck structure forward of bridge. Hull broken forward at bridge. No. 3 turret situated over separate deckhouse aft.
Note general destroyer lines.

JAPANESE LIGHT CRUISERS

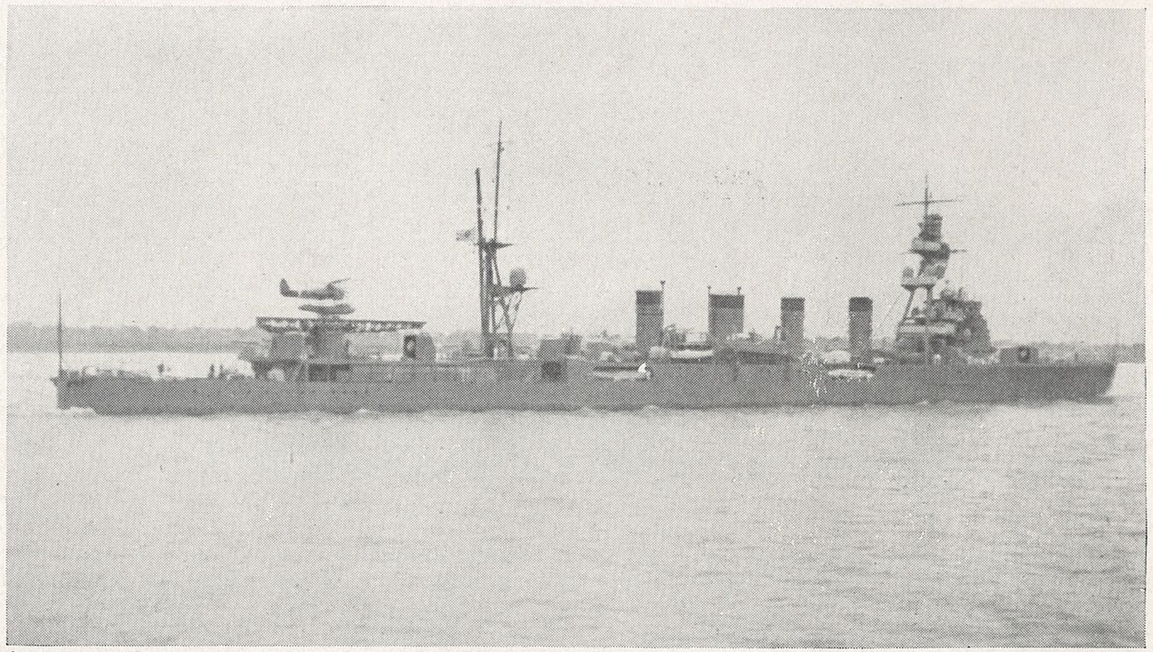
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

ONI 41-42



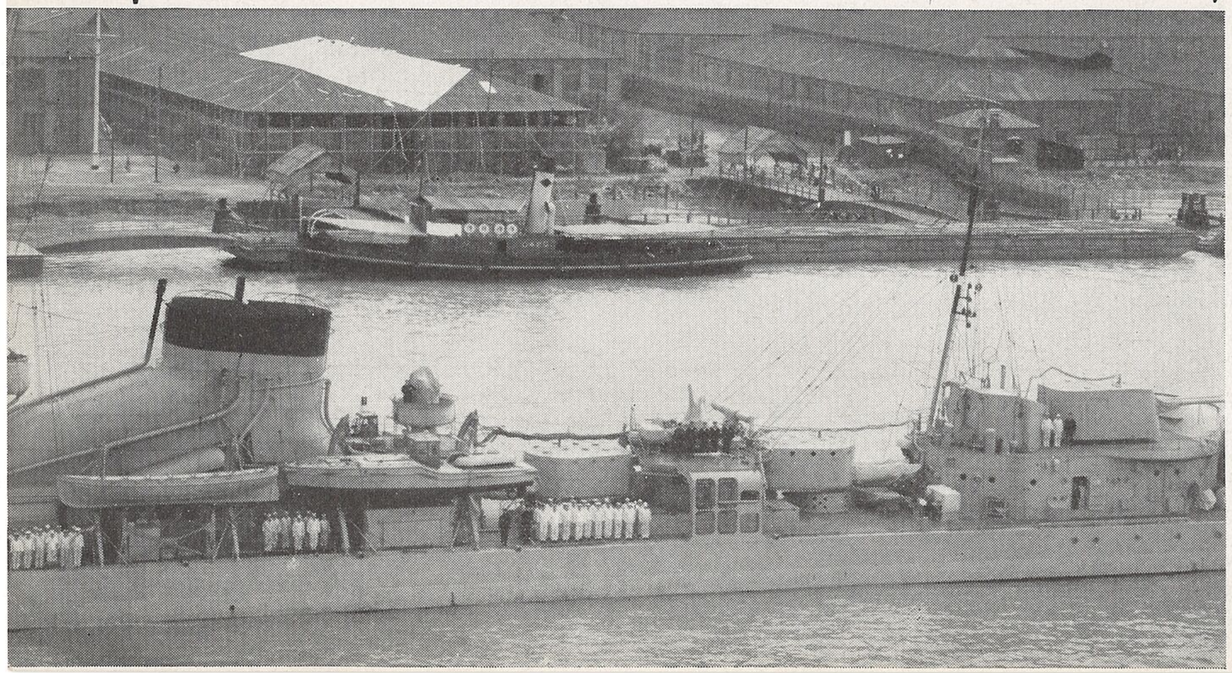
↑ KUMA CLASS

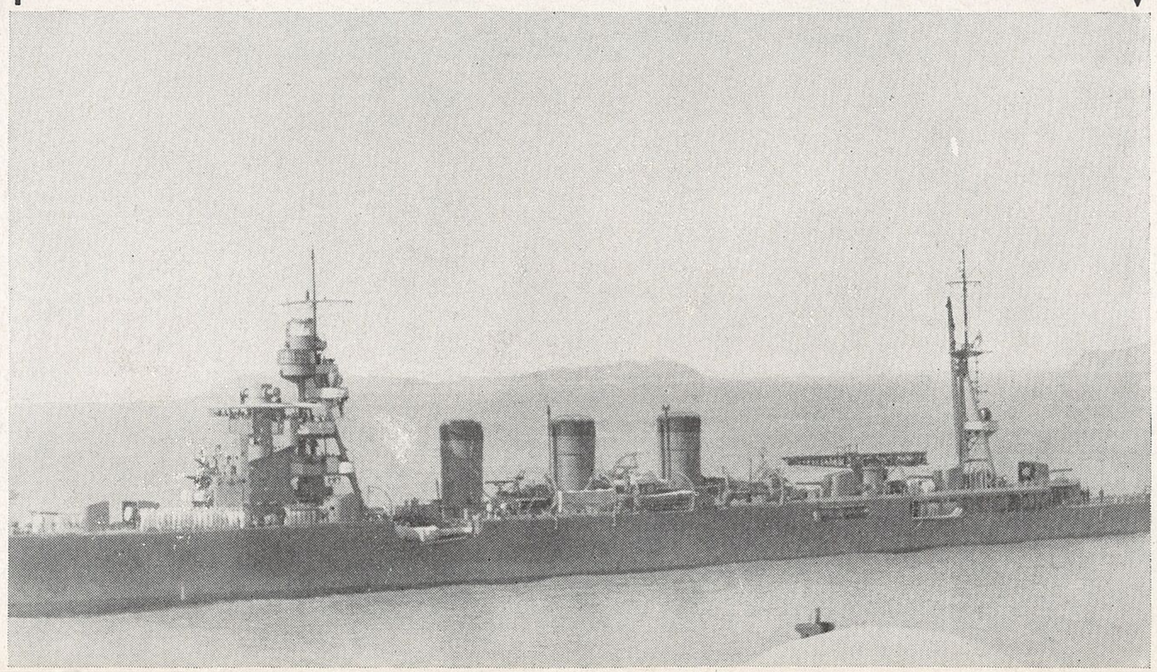
YUBARI ↓



↑ SENDAI CLASS

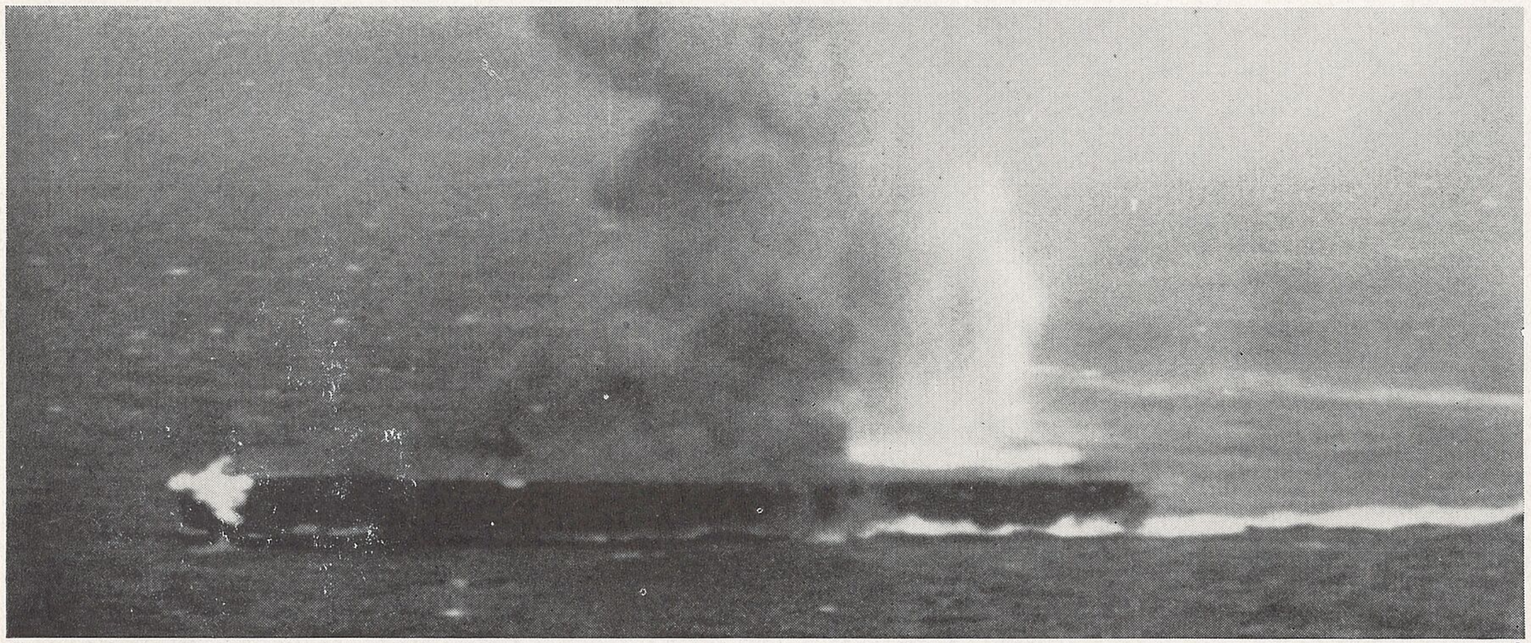
NATORI CLASS ↓



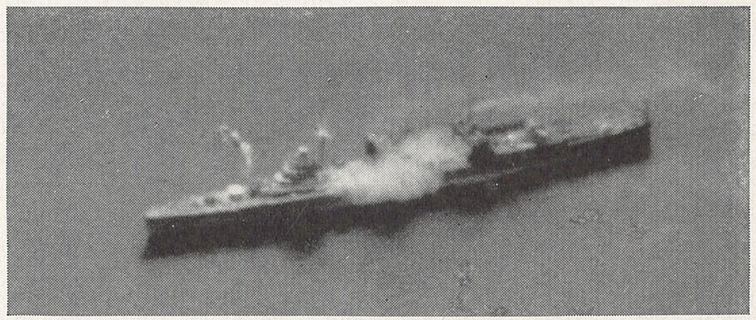


JAPANESE AIRCRAFT CARRIERS

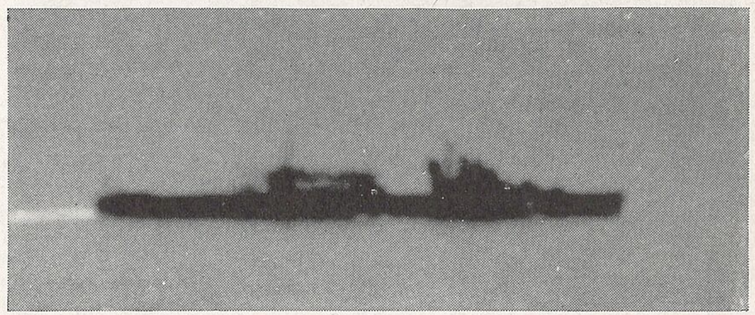
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943



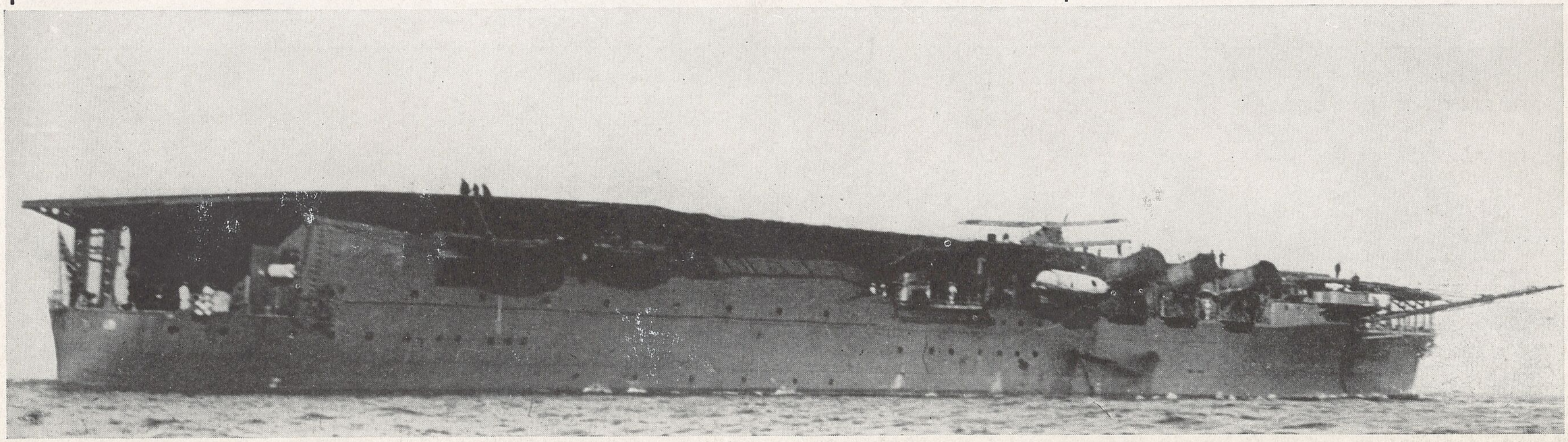
↑ SHOKAKU CLASS



HOSHO ↓ ↑ CHIYODA



MIZUHO (TOP)

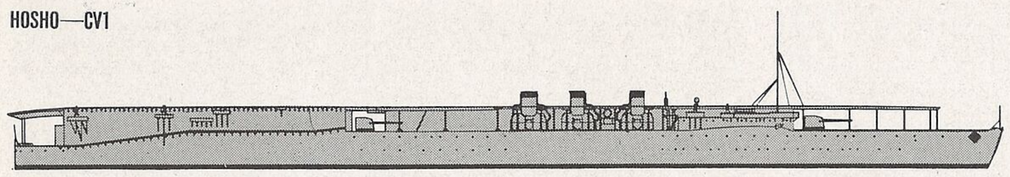


JAPANESE AIRCRAFT CARRIERS

ONI 41-42

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

HOSHO—CV1

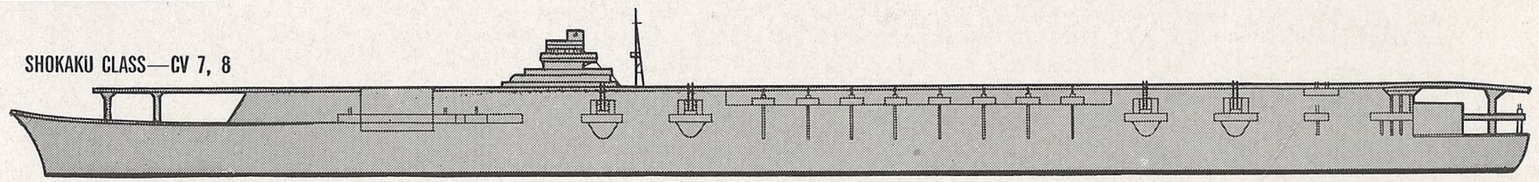


CV—AIRCRAFT CARRIERS

Of the 10 Fleet Aircraft Carriers the Japanese had in operation prior to the outbreak of war 5 or more have been sunk—the Akagi, Kaga, Ryujo, Soryu, and Hiryu, while other units are believed sunk, but unverified.

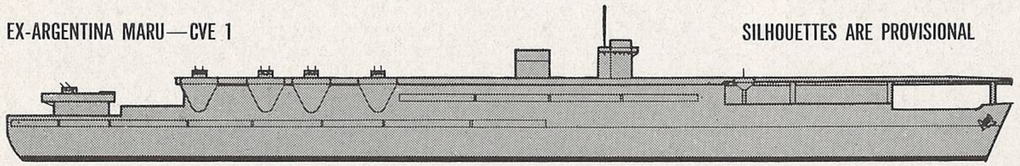
ZUIHO CLASS—CV 9, 10—SILHOUETTE PROVISIONAL

SHOKAKU CLASS—CV 7, 8

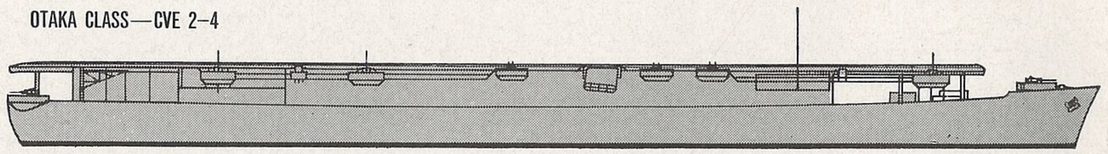


EX-ARGENTINA MARU—CVE 1

SILHOUETTES ARE PROVISIONAL



OTAKA CLASS—CVE 2–4

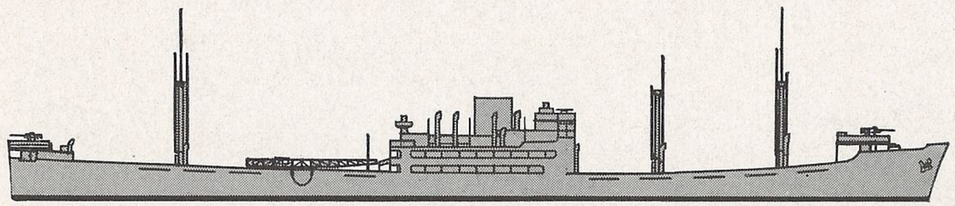


CVE—ESCORT AIRCRAFT CARRIERS

These are the only units on which any appearance data is known. However, specific instances of the conversion of tenders, passenger ships, cargo hulls, and oilers have been reported.

XCVS—APV—CONVERTED MERCHANT SHIPS

KAMIKAWA MARU CLASS—XCVS 1, 3, 7, 9, TYPICAL

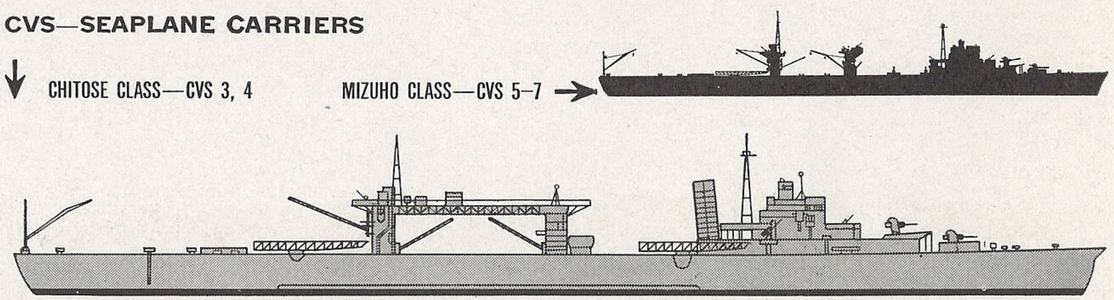


This category includes the 5 large Fleet Seaplane Tenders, the older converted freighters, and a miscellaneous assortment of merchant Ships. The dual function of all of these vessels is the supplying of Operational Seaplane Commands and the ferrying of aircraft.

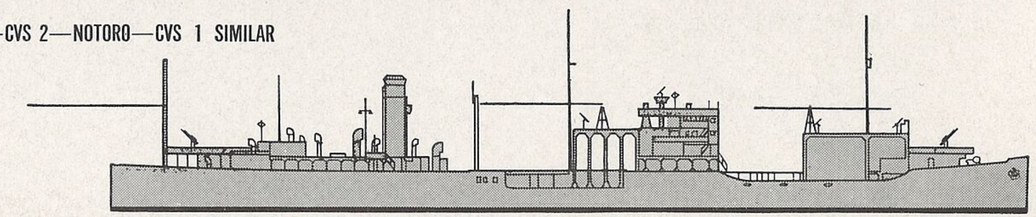
CVS—SEAPLANE CARRIERS

CHITOSE CLASS—CVS 3, 4

MIZUHO CLASS—CVS 5–7



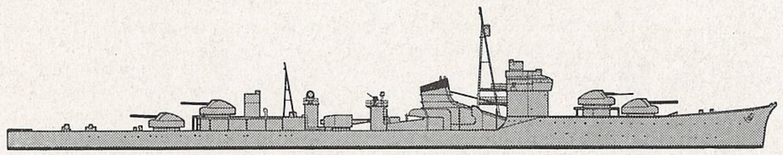
KAMOI—CVS 2—NOTORO—CVS 1 SIMILAR



JAPANESE DESTROYERS

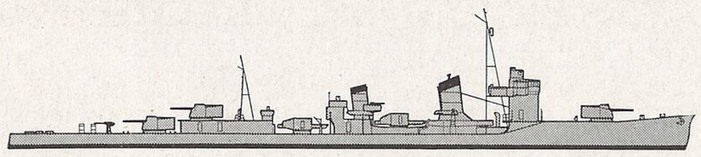
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

TERUTSUKI CLASS—DD 111

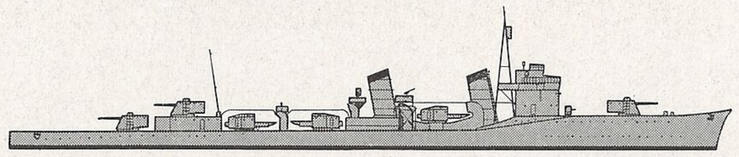


Single Jap raked stack.
Four superimposed twin shields.

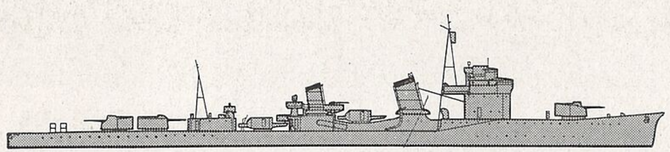
ASASHIO—KAGERO CLASSES—DD 76–110



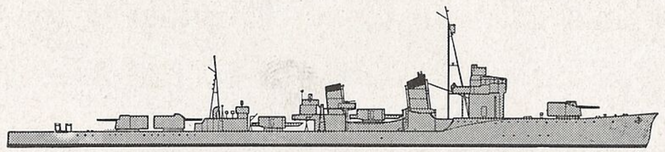
FUBUKI CLASS—DD 37–59



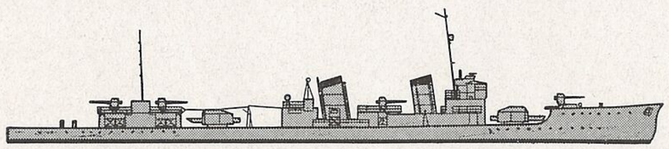
HATSUHARU CLASS—DD 60–65



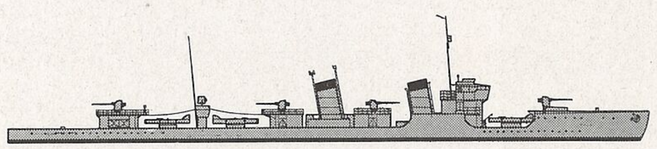
SHIGURE CLASS—DD 66–75



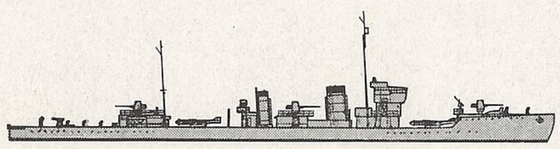
MUTSUKI—KAMIKAZE CLASSES—DD 16–36



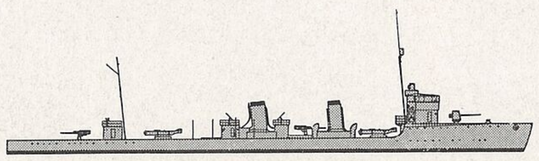
MINEKAZE CLASS—DD 1–15



WAKATAKE—MOMI CLASSES—ODD 4–29



MOMO CLASS—ODD 1–3



Japanese destroyers fall into two distinct groups:
The first-line DD's all have two high, raking stacks (except Terutsuki), tall bridges, tripod masts and enclosed gun shields.

The second-line DD's have shorter, broader stacks, low bridges, and pole masts. The distinctive feature is the forecastle torpedo-tube well.

ASASHIO—KAGERO CLASSES—DD 76–110

Like other classes, two raked, single-pipe stacks.
Torpedo tubes between and aft of stacks.
Superimposed twin shields aft.

FUBUKI CLASS—DD 37–59

Differs from other classes by having two sets of tubes abaft 2nd stack.
Stack and torpedo blast shield variances split class into three groups.

HATSUHARU CLASS—DD 60–65

Similar to Asashio class with aft gun shields placed on deck.
Note extreme rake to stacks, heavy bridge.

SHIGURE CLASS—DD 66–75

Quadruple torpedo mounts differentiate this class from Hatsuharu (triples)—otherwise identical.

MUTSUKI—KAMIKAZE CLASSES—DD 16–36

Two raked, combined stacks.
Shielded torpedo tubes.
Note large aft deckhouse supporting two guns and mainmast.
Kamikaze has two torpedo nests aft.

MINEKAZE CLASS—DD 1–15

Distinctive 1A 1–1–1 gun arrangement. Note three torpedo nests, separated aft by mainmast.

WAKATAKE—MOMI CLASSES—ODD 4–29

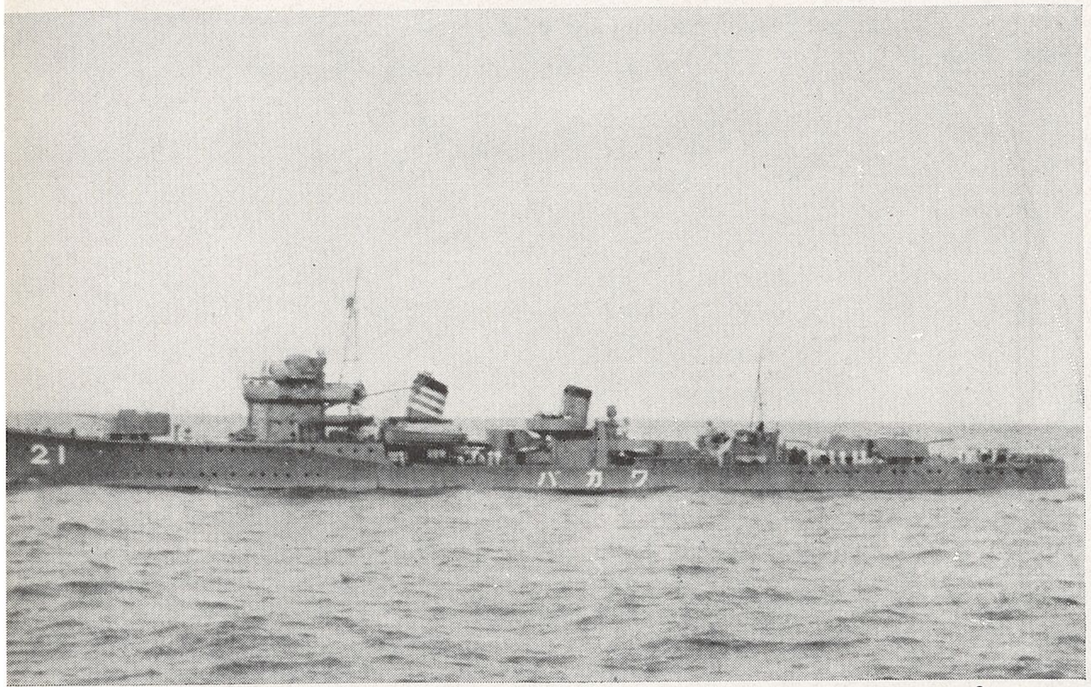
Distinguished by smaller raked single-pipe stack aft and 1A–1–1 gun disposition.
Minelayer version has no torpedo tubes, sloping stern.

MOMO CLASS—ODD 1–3

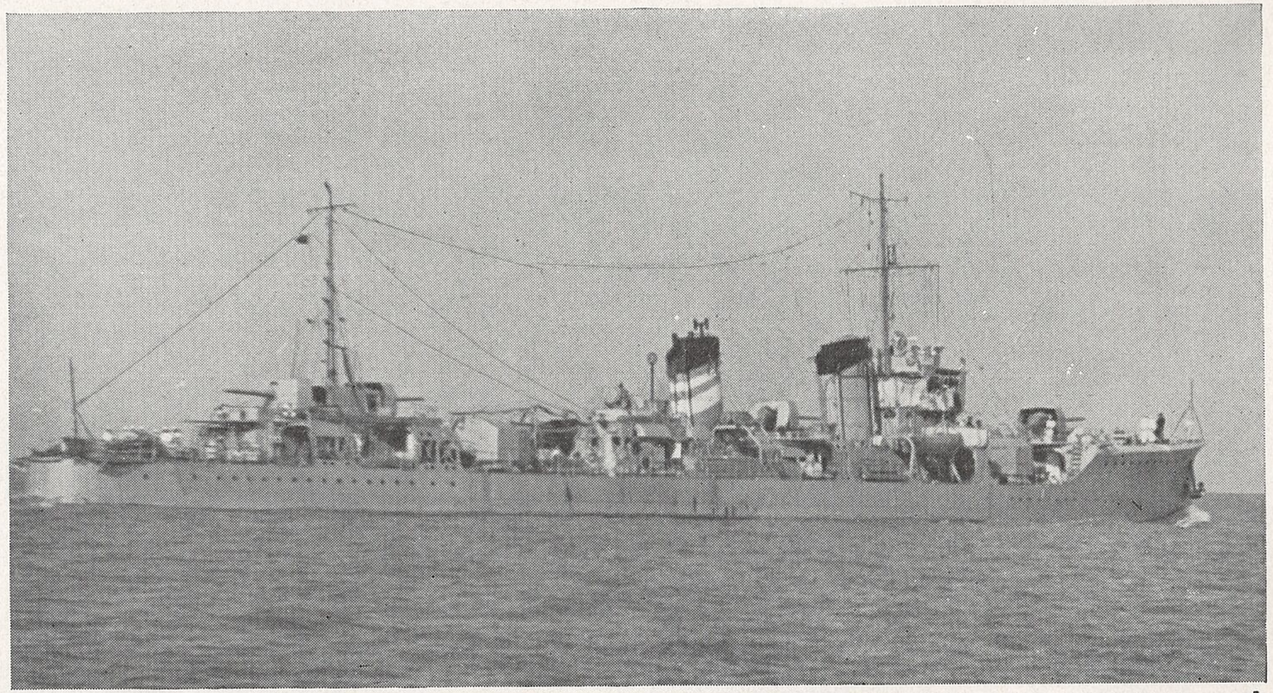
May be recognized by hull break abaft bridge and short, raked, single-pipe stacks.

JAPANESE DESTROYERS

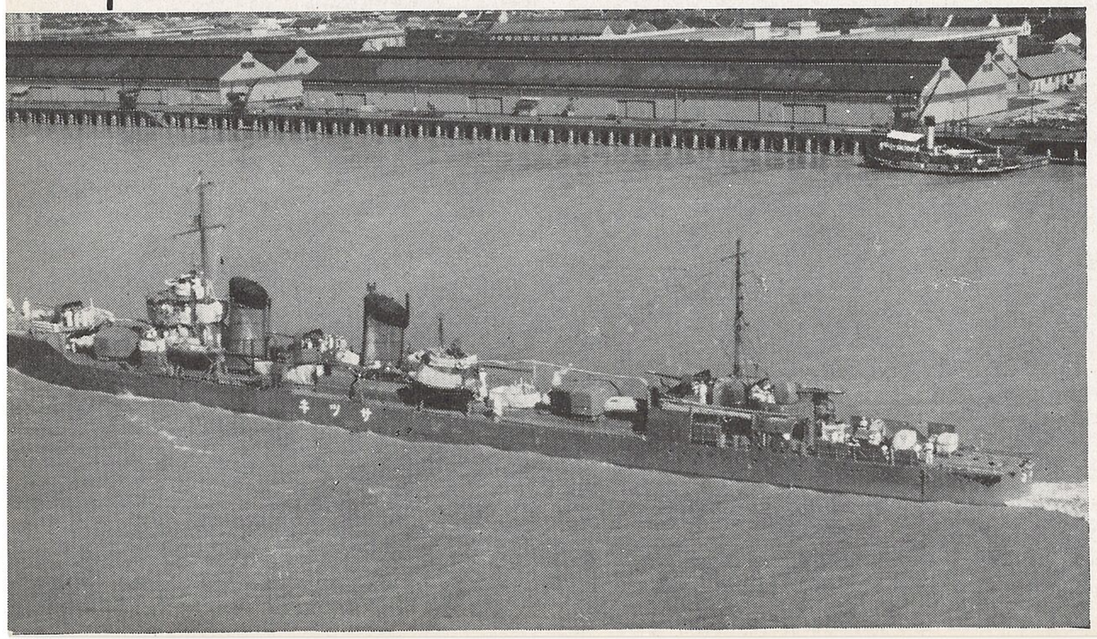
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

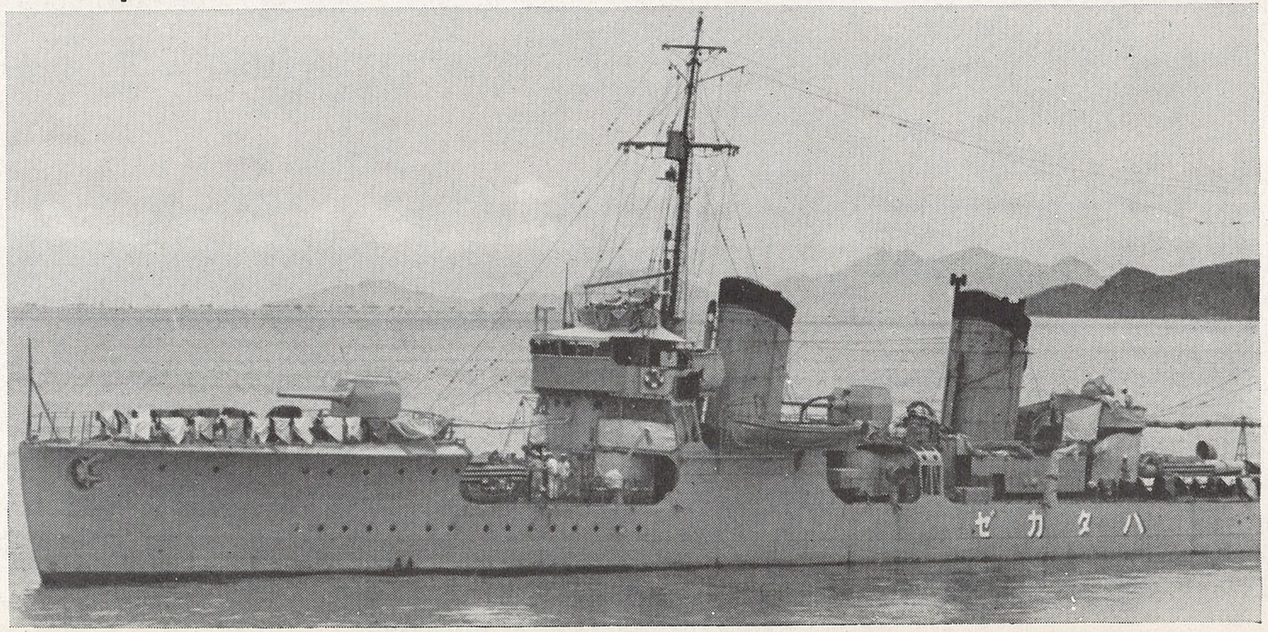


↑ HATSUHARU CLASS



↓ MUTSUKI CLASS ↑ KAMIKAZE CLASS ↓





JAPANESE NAVAL VESSELS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—DECEMBER, 1942

JAPANESE NAVAL VESSELS — LIST BY DESIGN CLASSES

NOTE—WHERE TWO OR MORE VESSELS ARE KNOWN TO BE BUILT TO A COMMON DESIGN, THEY ARE GROUPED UNDER THE NAME SHIP OF THE CLASS.

—VESSELS NOT SO GROUPED ARE INDICATED AS HAVING SEPARATE APPEARANCE BY BOLDER TYPE

—THE SPELLING OF SHIP NAMES IS THE MOST PHONETIC VERSION, ADOPTED BY THE U. S. NAVY. NAMES IN PARENTHESES ARE A NEWER SPELLING, NOT PHONETIC; THIS SPELLING IS SHOWN TO AVOID CONFUSION.

—NO NOTATION INDICATES AVAILABLE VESSELS; OTHER NOTATIONS ARE SELF-EXPLANATORY.

PRINCIPAL COMBATANT TYPES

BATTLESHIPS

KONGO CLASS:

BB1	KONGO	
BB2	HIYEI	
BB3	KIRISHIMA	(KIRISIMA)
BB4	HARUNA	

FUSO CLASS:

BB5	FUSO	(HUSO)
BB6	YAMASHIRO	(YAMASIRO)

ISE CLASS:

BB7	ISE	
BB8	HYUGA	

NAGATO CLASS:

BB9	NAGATO	
BB10	MUTSU	(MUTU)

BB11	**YAMATO**	
BB12	**MUSASHI**	
BB13	**TOSA (?)**	—REPORTED BUILDING
BB14	**OWARI (?)**	—REPORTED BUILDING

AIRCRAFT CARRIERS

CV1	**HOSHO**	(HOSYO)	
CV2	**AKAGI**		—CONVERTED FROM CC; WAR LOSS
CV3	**KAGA**		—CONVERTED FROM BB; WAR LOSS
CV4	**RYUJO**	(RYUZYO)	—REPORTED WAR LOSS

SORYU CLASS:

CV5	SORYU		—WAR LOSS
CV6	HIRYU		—WAR LOSS

SHOKAKU CLASS

CV7	SHOKAKU	(SYOKAKU)	
CV8	ZUIKAKU		

ZUIHO CLASS

CV9	ZUIHO	(EX TAKASAKI: EX-AS, EX-AO)
CV10	SHOHO	(EX TSURUGIZAKI; EX-AS, EX-AO)—WAR LOSS

HITAKA CLASS

CV11	HITAKA	(EX IZUMO MARU, CONVERTED WHILE BUILDING)
CV12	HAYATAKA	(EX KASHIWARA MARU, CONVERTED WHILE BUILDING)

NOTE—AT LEAST TWO REGULAR AIRCRAFT CARRIERS ARE BELIEVED BUILDING.

SEAPLANE CARRIERS

CVS1	**NOTORO**	(EX-AO)
CVS2	**KAMOI**	(EX-AO)

CHITOSE CLASS

CVS3	CHITOSE	(TITOSE)
CVS4	CHIYODA	(TIYODA)

MIZUHO CLASS

CVS5	MIZUHO	(MIDUHO)	—REPORTED WAR LOSS
CVS6	NISSHIN	(NISSIN)	
CVS7	AKITSUSHIMA	(AKITUSIMA)	

NOTE—AT LEAST TWO SEAPLANE CARRIERS ARE BELIEVED BUILDING.

HEAVY CRUISERS

FURUTAKA CLASS

CA1	FURUTAKA	(HURUTAKA)	—REPORTED WAR LOSS
CA2	KAKO		—WAR LOSS

AOBA CLASS

CA3	AOBA	
CA4	KINUGASA	

HEAVY CRUISERS (Continued)

NACHI CLASS

CA5	NACHI	(NATI)
CA6	HAGURO	
CA7	MYOKO	
CA8	ASHIGARA	(ASIGARA)

ATAGO CLASS

CA9	ATAGO	
CA10	TAKAO	
CA11	CHOKAI	(TYOKAI)
CA12	MAYA	

MOGAMI CLASS

CA13	MOGAMI	
CA14	MIKUMA	—REPORTED WAR LOSS
CA15	SUZUYA	
CA16	KUMANO	

TONE CLASS

CA17	TONE	
CA18	CHIKUMA	(TIKUMA)
CA19	**AGANO**	
CA20	**OYODO (?)**	—REPORTED BUILDING
CA21		—REPORTED BUILDING
CA22		—REPORTED BUILDING

NOTE—TWO ADDITIONAL UNIDENTIFIED HEAVY CRUISERS ARE CONSIDERED LOST.

LIGHT CRUISERS

TENRYU CLASS

CL1	TENRYU	
CL12	TATSUTA	(TATUTA)

KUMA CLASS

CL3	KUMA	
CL4	TAMA	
CL5	KITAGAMI	
CL6	KISO	
CL7	OI	

NATORI CLASS

CL8	NATORI	
CL9	NAGARA	
CL10	KINU	
CL11	YURA	
CL12	ISUZU	
CL13	ABUKUMA	
CL14	**YUBARI**	

SENDAI CLASS

CL15	SENDAI	
CL16	JINTSU	(ZINTU)
CL17	NAKA	

KATORI CLASS

CL18	KATORI	
CL19	KASHIMA	(KASIMA)
CL20	KASHII	(KASII)

CL21 TO 26 —REPORTED BUILDING

NOTE—EIGHT UNIDENTIFIED LIGHT CRUISERS ARE CONSIDERED LOST INCLUDING A UNIT OF THE SENDAI AND NATORI CLASSES.

DESTROYERS

MINEKAZE CLASS

DD1	MINEKAZE		
DD2	OKIKAZE		
DD3	SHIMAKAZE	(SIMAKAZE)	—REPORTED WAR LOSS
DD4	SAWAKAZE		
DD5	HAKAZE		
DD6	YAKAZE		
DD7	AKIKAZE		
DD8	YUKAZE		
DD9	HOKAZE		
DD10	SHIOKAZE	(SIOKAZE)	
DD11	TACHIKAZE	(TATIKAZE)	
DD12	NADAKAZE		—REPORTED WAR LOSS
DD13	NAMIKAZE		
DD14	NUMAKAZE		
DD15	NOKAZE		

KAMIKAZE CLASS

DD16	KAMIKAZE		(EX NO. 1)
DD17	ASAKAZE		(EX NO. 3)
DD18	HARUKAZE		(EX NO. 5)
DD19	MATSUKAZE	(MATUKASE)	(EX NO. 7)
DD20	ASANAGI		(EX NO. 15)
DD21	HATAKAZE		(EX NO. 9)
DD22	OITE		(EX NO. 11)
DD23	HAYATE		(EX NO. 13) —REPORTED WAR LOSS
DD24	YUNAGI		(EX NO. 17)

JAPANESE NAVAL VESSELS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—DECEMBER, 1942

MINE LAYERS (Continued)

SHIMUSHU CLASS

CM11	SHIMUSHU	(SIMUSU)
CM12	KUNAJIRI	
CM13	HACHIJO	
CM14	ISHIGAKI	(ISIGAKI)
CM15	MIYAKO	

MINE SWEEPERS

No. 1 CLASS

AM1	NO. 1
AM2	NO. 2
AM3	NO. 3
AM4	NO. 4
AM5	NO. 5
AM6	NO. 6

No. 7 CLASS

AM13	NO. 7
AM14	NO. 8
AM15	NO. 9
AM16	NO. 10
AM17	NO. 11
AM18	NO. 12

No. 13 CLASS

AM7	NO. 13
AM8	NO. 14
AM9	NO. 15
AM10	NO. 16
AM11	NO. 17
AM12	NO. 18

No. 19 CLASS

AM19	NO. 19
AM20	NO. 20
AM21	NO. 21
AM22	NO. 22
AM23	NO. 23
AM24	NO. 24

NOTE—TWELVE UNITS, DESIGN UNKNOWN, REPORTED BUILDING.

TORPEDO BOATS

CHIDORI CLASS

TB1	CHIDORI	(TIDORI)
TB2	MANAZURU	
TB3	TOMOZURU	
TB4	HATSUKARI	(HATUKARI)

OTORI CLASS

TB5	OTORI
TB6	HAYABUSA
TB7	HIYODORI
TB8	KASASAGI
TB9	HATO
TB10	SAGI
TB11	KARI
TB12	KIJI

NOTE—EIGHT UNITS, DESIGN UNKNOWN, REPORTED BUILDING.

GUNBOATS

PG1	**YODO**	
PG2	**SAGA**	
PG3	**ASUGA**	(EX-CHINESE MUNG CHI)
PG4	**ATAKA**	
PG5	**HITONOSE**	(EX-CHINESE MING SEN)

HASHIDATE CLASS

PG6	HASHIDATE	(HASIDATE)
PG7	UJI	

NOTE—FOUR UNITS, DESIGN UNKNOWN, REPORTED BUILDING.

RIVER GUNBOATS

PR1	TOBA

SETA CLASS

PR2	SETA
PR3	HOZU
PR4	HIRA
PR5	KATADA

ATAMI CLASS

PR6	ATAMI
PR7	FUTAMI

SUMIDA CLASS

PR8	SUMIDA		
PR9	FUSHIMI	(HUSIMI)	
PR10	TATARA		(EX U. S. S. WAKE)
PR11	KARATSU	(KARATU)	(EX U. S. S. LUZON)
PR12	HUI MO		(EX H. M. S. MOTH)

SUBMARINE CHASERS

PC1, 2	NOS. 1 AND 2
PC3–39	NOS. 3 TO 39
PC40–44	NOS. 51 TO 55
PC45–47	NOS. 101 TO 103

MOTOR TORPEDO-BOATS

OVER 50 UNITS ARE BELIEVED TO BE IN COMMISSION. DESIGN CLASSES UNKNOWN.

"CONVERTED GUNBOATS"

OVER 23 SMALL MERCHANT STEAMERS BELIEVED TO BE EMPLOYED AS GUNBOATS; INSUFFICIENT DATA FOR DESIGN CLASSIFICATION.

TRAWLERS

OVER 29 TRAWLERS SERVING IN THE NAVY, MOSTLY AS AUXILIARY MINESWEEPERS. AN UNDETERMINED NUMBER OF WHALE "KILLER BOATS" HAVE LIKEWISE BEEN TAKEN OVER.

AIRCRAFT AUXILIARIES

AUXILIARY AIRCRAFT CARRIERS

OTAKA CLASS

ACV1	OTAKA	(EX KASUGA MARU)
ACV2	UNYO	(EX YAWATA MARU)

NOTE—FOUR ADDITIONAL UNITS, INCLUDING THE CHUYO, ARE REPORTED FITTING OUT.

SEAPLANE TENDERS

KAMIKAWA MARU CLASS

AV1	KAMIKAWA MARU
AV2	KIYOKAWA MARU

KINUGASA MARU CLASS

AV3	KINUGASA MARU
AV4	KIYOSUMI MARU
AV5	**FUJIKAWA MARU**
AV6	**YASUKAWA MARU**
AV7	**SOUYOU (SOYO) MARU**
AV8	**GOSHU MARU**
AV9	**NARUTO MARU**
AV10	**SANUKI MARU**
AV11	**SAN-YO MARU**
AV12	**KATSURAGI MARU**
AV13	**KOKITSU MARU**
AV14	**NITCHO MARU**
AV15	**MOGAMIGAWA MARU**

NAVAL AUXILIARIES, MISCELLANEOUS AND UNCLASSIFIED TYPES

SUBMARINE TENDERS

AS1	KOMAHASHI	(KOMAHASI)

JINGEI CLASS

AS2	JINGEI	(ZINGEI)
AS3	CHOGEI	(TYOGEI)
AS4	**TAIGEI**	
AS5	**MANZYU MARU**	(EX-SANTOS)
AS6	**RIO DE JANEIRO MARU**	
AS7	**YASUKUNI MARU**	

HIE MARU CLASS

AS8	HIE MARU
AS9	HEIAN MARU
AS10	**NAGOYA MARU**
AS11	**ARATAMA MARU**
AS12	**URAKAMI MARU**
AS13	**HINODE MARU**
AS14	**NISSO MARU**

REPAIR SHIPS

AR1	**ASAHI**		(EX OBB)
AR2	**AKASHI**	(AKASI)	
AR3			—BUILDING

SALVAGE SHIPS

ARS1	**KURIHASHI**
ARS2	**YODOBASHI**
ARS3	**SARUHASHI**
ARS4	**SHIRAGANE**
ARS5	**NAGAURA**

HOSPITAL SHIPS

AH1	**HIKAWA MARU**
AH2	**TAKASAGO MARU**
AH3	**ASARI MARU**
AH4	**URAL MARU**
AH5	**AMERICA MARU**
AH6	**MANILA MARU**
AH7	**RYUKO MARU**

JAPANESE NAVAL VESSELS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—DECEMBER, 1942

SUBMARINES (Continued)

SS22 I-5
SS23 I-6

I-168 CLASS

(FORMERLY I-68 CLASS)

SS24 I-168 (EX I-68)
SS25 I-169 (EX I-69)
SS26 I-170 (EX I-70)
SS27 I-171 (EX I-71)
SS28 I-172 (EX I-72)
SS29 I-173 (EX I-73)
SS30 I-174 (EX I-74)
SS31 I-175 (EX I-75)

I-7 CLASS

SS32 I-7
SS33 I-8

I-9 CLASS

SS34 I-9
SS35 I-10
SS36 I-11
SS37 I-12
SS38 I-13
SS39 I-14
SS40 I-15
SS41 I-16
SS42 I-17
SS43 I-18
SS44 I-19
SS45 I-20
SS46 I-21
SS47 I-22
SS48 I-23
SS49 I-24
SS50 I-25
SS51 I-26
SS52 I-27
SS53 I-28 —WAR LOSS
SS54 I-29
SS55 I-30
SS56 I-31
SS57 I-32
SS58 I-33
SS59 I-34
SS60 I-35
SS61 I-36
SS62 I-37
SS63 I-38
SS64 I-39
SS65 I-41
SS66 I-43 —BUILDING
SS67 I-45 —BUILDING
SS68 I-47 —BUILDING
SS69 I-49 —BUILDING

I-76 CLASS

SS70 I-76
SS71 I-77
SS72 I-78
SS73 I-79
SS74 I-80
SS75 I-81
SS76 I-82
SS77 I-83 —BUILDING
SS78 I-84 —BUILDING
SS79 I-85 —BUILDING

I-101 CLASS

SS80 I-101
SS81 I-102
SS82 I-103
SS83 I-104
SS84 I-105 —BUILDING
SS85 I-106 —BUILDING
SS86 I-107 —BUILDING

I-176 CLASS

SS87 I-176 —BUILDING
SS88 I-177 —BUILDING
SS89 I-178
SS90 I-179
SS91 I-180
SS92 I-181
SS93 I-182
SS94 I-185

NOTE—POSITIVE IDENTIFICATION OF THE I-176 CLASS HAS YET TO BE ESTABLISHED

ONI 41-42

RESTRICTED

SUBMARINES (BELOW 1,000 TONS — OSS)

RO-26 CLASS

OSS1	RO-26	(EX NO. 45) —REPORTED REMOVED FROM LIST
OSS2	RO-27	(EX NO. 58) —REPORTED REMOVED FROM LIST
OSS2	RO-27	(EX NO. 58) —REPORTED REMOVED FROM LIST
OSS3	RO-28	(EX NO. 62) —REPORTED REMOVED FROM LIST

RO-51 CLASS

OSS4	RO-51	(EX NO. 25) —REPORTED REMOVED FROM LIST
OSS5	RO-52	(EX NO. 26) —REPORTED REMOVED FROM LIST
OSS6	RO-53	(EX NO. 27) —REPORTED REMOVED FROM LIST
OSS7	RO-54	(EX NO. 28) —REPORTED REMOVED FROM LIST
OSS8	RO-55	(EX NO. 29) —REPORTED REMOVED FROM LIST
OSS9	RO-56	(EX NO 30) —REPORTED REMOVED FROM LIST
OSS10	RO-57	(EX NO. 46)
OSS11	RO-58	(EX NO. 47)
OSS12	RO-59	(EX NO. 57)

RO-60 CLASS

OSS13	RO-60	(EX NO. 59)
OSS14	RO-61	(EX NO. 72) —WAR LOSS
OSS15	RO-62	(EX NO. 73)
OSS16	RO-63	(EX NO. 84)
OSS17	RO-64	
OSS18	RO-65	
OSS19	RO-66	
OSS20	RO-67	
OSS21	RO-68	

RO-33 CLASS

OSS22	RO-33	
OSS23	RO-34	
OSS24	RO-35	
OSS25	RO-36	
OSS26	RO-37	

RO-100 CLASS

OSS27	RO-100	
OSS28	RO-101	
OSS29	RO-102	
OSS30	RO-103	
OSS31	RO-104	—BUILDING
OSS32	RO-105	—BUILDING
OSS33	RO-106	—BUILDING
OSS34	RO-107	—BUILDING

MINE-LAYING SUBMARINES

RO-29 CLASS

SM1	RO-29	(EX NO. 68) —REMOVED FROM LIST
SM2	RO-30	(EX NO. 69)
SM3	RO-31	(EX NO. 70)
SM4	RO-32	(EX NO. 71)

I-121 CLASS (FORMERLY I-21 CLASS)

SM5	I-121	(EX I-21; EX NO. 48)
SM6	I-122	(EX I-22; EX NO. 49)
SM7	I-123	(EX I-23; EX NO. 50)
SM8	I-124	(EX I-24)

NOTE—EIGHTEEN OR MORE SUBMARINES ARE CONSIDERED LOST; THE IDENTITY OF MOST UNITS LOST IS UNCERTAIN.

MINOR COMBATANT TYPES

CRUISERS, SECOND LINE (termed "Coast Defence Ships")

OCA1	**ASAMA**	
OCA2	**YAKUMO**	
OCA3	**AZUMA**	(ADUMA)

IWATE CLASS

OCA4	IWATE	
OCA5	IZUMO	(IDUMO)
OCA6	KASUGA	

MINE LAYERS

CM1	**TOKIWA**	(EX OCA)	
CM2	**KATSURIKI**	(KATURIKI)	
CM3	**SHIRATAKA**	(SIRATAKA)	—ALSO FITTED AS AN AN
CM4	**ITSUKUSHIMA**	(ITUKUSIMA)	
CM5	**YAEYAMA**		—ALSO FITTED AS AN AN
CM6	**OKINOSHIMA**	(OKINOSIMA)	—WAR LOSS

HATSUTAKA CLASS

CM7	HATSUTAKA	(HATUTAKA)
CM8	AOTAKA	
CM9	WAKATAKA	
CM10	TSUGARU	(TUGARU)

JAPANESE NAVAL VESSELS

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DESTROYERS (Continued)

MUTSUKI CLASS

DD25	MUTSUKI	(MUTUKI)	(EX NO. 19) —REPORTED WAR LOSS
DD26	SATSUKI	(SATUKI)	(EX NO. 27)
DD27	KISARAGI		(EX NO. 21)
DD28	YAYOI		(EX NO. 23) —REPORTED WAR LOSS
DD29	UZUKI	(UDUKI)	(EX NO. 25)
DD30	FUMITSUKI	(HUMITUKI)	(EX NO. 29)
DD31	KIKUTSUKI	(KIKUTUKI)	(EX NO. 31)
DD32	MINATSUKI	(MINATUKI)	(EX NO. 32)
DD33	NAGATSUKI	(NAGATUKI)	(EX NO. 30)
DD34	MIKATSUKI	(MIKATUKI)	(EX NO. 32)
DD35	MOCHITSUKI	(MOTIDUKI)	(EX NO. 33)
DD36	YUZUKI	(YUDUKI)	(EX NO. 34)

FUBUKI CLASS (SHINONOME Group)

DD37	FUBUKI	(HUBUKI)	
DD38	SHINONOME	(SINONOME)	
DD39	SHIRAYUKI	(SIRAYUKI)	
DD40	USUGUMO		
DD41	SHIRAKUMO	(SIRAKUMO)	
DD42	ISONAMI		
DD43	HATSUYUKI	(HATUYUKI)	
DD44	MURAKUMO		

FUBUKI CLASS (AMAGIRI Group)

DD45	AMAGIRI		
DD46	SHIKINAMI	(SIKINAMI)	
DD47	AYANAMI		
DD48	ASAGIRI		
DD49	URANAMI		
DD50	YUGIRI		
DD51	SAGIRI		—REPORTED WAR LOSS
DD52	USHIO	(USIO)	
DD53	OBORO		
DD54	AKEBONO		
DD55	SAZANAMI		
DD—	MIYUKI		—SUNK BY COLLISION, 1934

FUBUKI CLASS (HIBIKI Group)

DD56	HIBIKI		
DD57	IKAZUCHI	(IKADUTI)	
DD58	INAZUMA	(INADUMA)	
DD59	AKATSUKI	(AKATUKI)	

HATSUHARU CLASS

DD60	HATSUHARU	(HATUHARU)	
DD61	HATSUSHIMO	(HATUSIMO)	—REPORTED WAR LOSS
DD62	NENOHI		—REPORTED WAR LOSS
DD63	WAKABA		
DD64	ARIAKE		
DD65	YUGURE		

SHIGURE CLASS

DD66	SHIGURE	(SIGURE)	
DD67	SHIRATSUYU	(SIRATUYU)	
DD68	MURASAME		
DD69	YUDACHI	(YUDATI)	
DD70	HARUSAME		—REPORTED WAR LOSS
DD71	SAMIDARE		—REPORTED WAR LOSS
DD72	YAMAKAZE		
DD73	SUZUKAZE		
DD74	KAWAKAZE		
DD75	UMIKAZE		

ASASHIO CLASS

DD76	ASASHIO	(ASASIO)	
DD77	ARASHIO	(ARASIO)	
DD78	OSHIO	(OSIO)	
DD79	MICHISHIO	(MITISIO)	
DD80	ASAGUMO		—REPORTED WAR LOSS
DD81	YAMAGUMO		
DD82	MINEGUMO		—REPORTED WAR LOSS
DD83	NATSUGUMO	(NATUGUMO)	
DD84	KASUMI		
DD85	ARARE		

KAGERO CLASS

DD86	KAGERO		
DD87	SHIRANUHI	(SIRANUI)	
DD88	KUROSHIO	(KUROSIO)	—REPORTED WAR LOSS
DD89	OYASHIO	(OYASIO)	
DD90	HATSUKAZE	(HATUKAZE)	
DD91	NATSUSHIO	(NATUSIO)	—REPORTED WAR LOSS
DD92	YUKIKAZE		
DD93	HAYASHIO	(HAYASIO)	
DD94	ISOKAZE		
DD95	AMATSUKAZE	(AMATUKAZE)	

DESTROYERS (Continued)

DD96	TOKITSUKAZE	(TOKITUKAZE)
DD97	URAKAZE	
DD98	ARASHI	(ARASI)
DD99	HAGIKAZE	
DD100	NOWAKI	
DD101	HAMAKAZE	
DD102	TANIKAZE	
DD103	MAIKAZE	
DD104	YUGUMO	
DD105	AKIGUMO	
DD106	MAKIGUMO	
DD107	SHIMAKAZE	(SIMAKAZE)
DD108	KAZEGUMO	
DD109	AKITSUKI	(AKITUKI)
DD110	SUZUTSUKI	(SUZUTUKI)
DD111	TERATSUKI	(TERATUKI)
DD112	HATSUTSUKI	(HATUTUKI)
DD113	WAKATSUKI	(WAKATUKI)
DD114	ARAZUKI	
DD115	NAGANAMI	
DD116	MAKINAMI	
DD117	TAKANAMI	
DD	**—UNKNOWN No. 1—**NAMES & NUMBERS UNKNOWN	

MOMO CLASS

ODD1	MOMO		—REMOVED FROM LIST
ODD2	HINOKI		—REMOVED FROM LIST
ODD3	YANAGI		—REMOVED FROM LIST

MOMI CLASS

ODD4	HASHI	(NASI)	—REMOVED FROM LIST
ODD5	TAKE		—REMOVED FROM LIST
ODD6	KAYA		—REMOVED FROM LIST
ODD7	KURI		
ODD8	NIRE		—REMOVED FROM LIST
ODD9	AOI		—REMOVED FROM LIST
ODD10	KIKU		—REMOVED FROM LIST
ODD11	KAKI		—REMOVED FROM LIST
ODD12	TSUGA	(TUGA)	
ODD13	HAGI		—REMOVED FROM LIST
ODD14	SUSUKI		—REMOVED FROM LIST
ODD15	FUJI		—REMOVED FROM LIST
ODD16	ASHI	(ASI)	—REMOVED FROM LIST
ODD17	TSUTA	(TUTA)	—REMOVED FROM LIST
ODD18	HASU		
ODD19	HISHI	(HISI)	—REMOVED FROM LIST
ODD20	TADE		—REMOVED FROM LIST
ODD21	YOMOGI		—REMOVED FROM LIST
ODD22	SUMIRA		—REMOVED FROM LIST

WAKATAKE CLASS

ODD23	WAKATAKE		(EX NO. 2)
ODD24	KURETAKE		(EX NO. 4)
ODD25	SANAYE		(EX NO. 6)
ODD26	ASAGAO		(EX NO. 10)
ODD27	FUYO	(HUYO)	(EX NO. 16)
ODD28	KARUKAYA		(EX NO. 18)
ODD29	YUGAO		(EX NO. 12) —REMOVED FROM LIST
ODD—	SAWARABI		(EX NO. 8) —FOUNDERED, 1932

NOTE—FROM 35 TO 40 OR SO DESTROYERS ARE CONSIDERED LOST, IDENTITY UNCERTAIN.

SUBMARINES

(ABOVE 1,000 TONS—SS)

SS1	**I-151**	(EX I-51, EX NO. 44)
SS2	**I-152**	(EX I-52, EX NO. 51)

I-153 CLASS

(FORMERLY I-53 CLASS)

SS3	I-153	(EX I-53, EX NO. 64)
SS4	I-154	(EX I-54, EX NO. 77)
SS5	I-155	(EX I-55, EX NO. 78)
SS6	I-156	(EX I-56)
SS7	I-157	(EX I-57)
SS8	I-158	(EX I-58)
SS9	I-159	(EX I-59)
SS10	I-60	—WAR LOSS
SS11	I-61	—SUNK BY COLLISION, 1941
SS12	I-162	(EX I-62)
SS13	I-63	—SUNK BY COLLISION, 1939
SS14	I-164	(EX I-64)

I-1 CLASS

SS15	I-1	(EX NO. 74)
SS16	I-2	(EX NO. 75)
SS17	I-3	(EX NO. 76)
SS18	I-4	

I-165 CLASS

(FORMERLY I-65 CLASS)

SS19	I-165	(EX I-65)
SS20	I-166	(EX I-66)
SS21	I-67	—FOUNDERED, 1940

HOSPITAL SHIPS (Continued)

AH8	**BAIKAL MARU**	
AH9	**SEATTLE MARU**	
AH10	**HOKUSAN MARU**	

FUEL-OIL TANKERS

AO1	SUNOSAKI	

SHIRETOKO CLASS

AO2	SHIRETOKO	(SIRETOKO)
AO3	ERIMO	
AO4	SATA	
AO5	TSURIMI	(TURIMI)
AO6	SHIRIYA	(SIRIYA)
AO7	IRO	
AO8	ONDO	
AO9	HAYATOMO	
AO10	NARUTO	

—REPORTED WAR LOSS

TOA MARU CLASS

AO11	TOA MARU	
AO12	KYOKUTO MARU	

SAN PEDRO MARU CLASS

AO13	SAN PEDRO MARU	
AO14	SAN DIEGO MARU	

TONAN MARU CLASS

AO15	TONAN MARU NO. 2	
AO16	TONAN MARU NO. 3	

KENYO MARU CLASS

AO17	KENYO MARU	
AO18	KOKUYO MARU	

HOYO MARU CLASS

AO19	HOYO MARU	
AO20	KAIZYO MARU	
AO21	**AKEBONO MARU**	
AO22	**NISSHIN MARU NO. 2**	
AO23	**FUJISAN MARU**	
AO24	**OMUROSAN MARU**	
AO25	**GENATA**	(EX-DUTCH)

STORESHIPS

AF1	**MAMIYA**	
AF2	**KASHINO**	(KASINO)
AF3	**IRAKO**	

MUROTO CLASS

AF4	MUROTO	
AF5	NOJIMA	(NOZIMA)
AF6	**KOSEI MARU**	

CABLE LAYING SHIPS

HASHIMA CLASS

ARC1	HASHIMA	(HASIMA)
ARC2	TSURUSHIMA	(TURUSIMA)
ARC3	TATEISHI	(TATEISI)
ARC4	ODATE	

TARGET SHIP

	SETTSU	(EX-BB)

ICE-BREAKER

OTOMARI

SURVEYING SHIPS

AGS1	**KOSHU**	
AGS2	**TSUKUSHI**	(TUKUSI)
AGS3	**SOYA**	

DISTRICT CRAFT

MIDGET SUBMARINES

5 TO 15 TON CLASS

NUMBER AVAILABLE AND BUILDING UNKNOWN.

40 TO 50 TON CLASS

NUMBER AVAILABLE AND BUILDING UNKNOWN.

ONI 41-42

RESTRICTED

COASTAL MINE LAYERS (CAN ALSO BE EMPLOYED AS AMC'S)

TOSHIMA CLASS

CMc1	TOSHIMA	(TOSIMA)
CMc2	KUROSHIMA	(KUROSIMA)
CMc3	KATOKU	
CMc4	ASHIZAKI	(ASIZAKI)
CMc5	ENTO	
CMc6	KATASHIMA	(KATASIMA)
CMc7	KUROKAMI	
CMc8	ENOSHIMA	(ENOSIMA)
CMc9	KUROZAKI	
CMc10	NINOSHIMA	(NINOSIMA)

TSUBAME CLASS

CMc11	TSUBAME	(TUBAME)	—ALSO FITTED AS AN AN
CMc12	KAMOME		—ALSO FITTED AS AN AN

NATSUSHIMA CLASS

CMc13	NATSUSHIMA	(NATUSIMA)
CMc14	NASAMI	
CMc15	SARUSHIMA	(SARUSIMA)

SOKUTEN CLASS

CMc16	SOKUTEN	
CMc17	SHIRAKAMI	(SIRAKAMI)
CMc18	KYOSAI	
CMc19	NARIU	
CMc20	UKISHIMA	(UKISIMA)

YURISHIMA CLASS

CMc21	YURISHIMA	(YURISIMA)
CMc22	NUWASHIMA	(NUWASIMA)
CMc23	MAESHIMA	(MAESIMA)
CMc24	MOROSHIMA	(MOROSIMA)
CMc25	HIRASHIMA	(HIRASIMA)
CMc26	TAKASHIMA	(TAKASIMA)
CMc27	ARAISAKI	
CMc28	ISHIZAKI	(ISIZAKI)
CMc29	BOKO	
CMc30	SAGISAKI	
CMc31	SAISHU	

DIVISION OF NAVAL INTELLIGENCE

IDENTIFICATION AND CHARACTERISTICS SECTION

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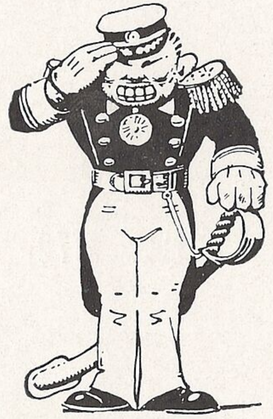
NIPPOTES



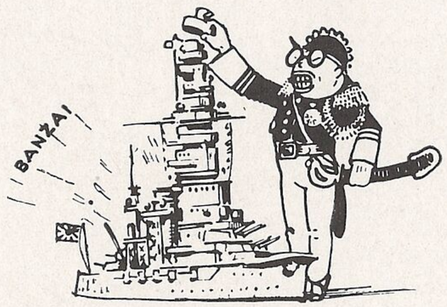
BATTLESHIPS

when JAP BBs

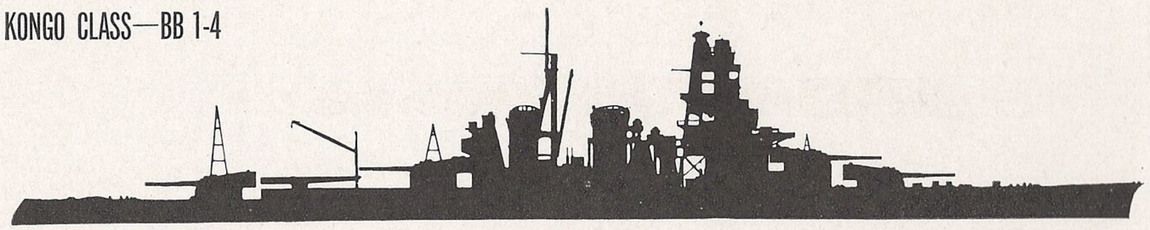
sail off to glory

they almost always

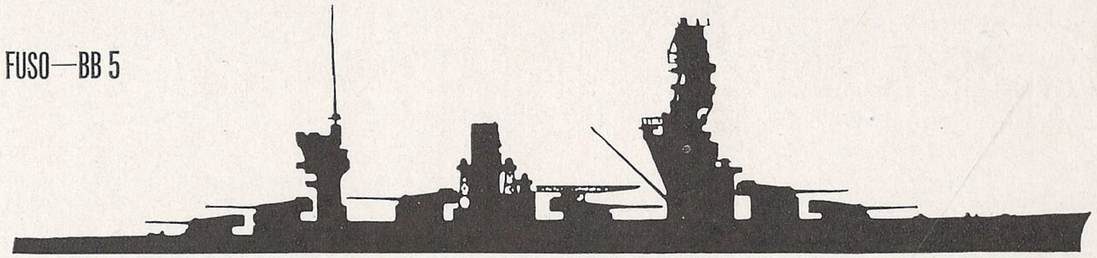
add a story



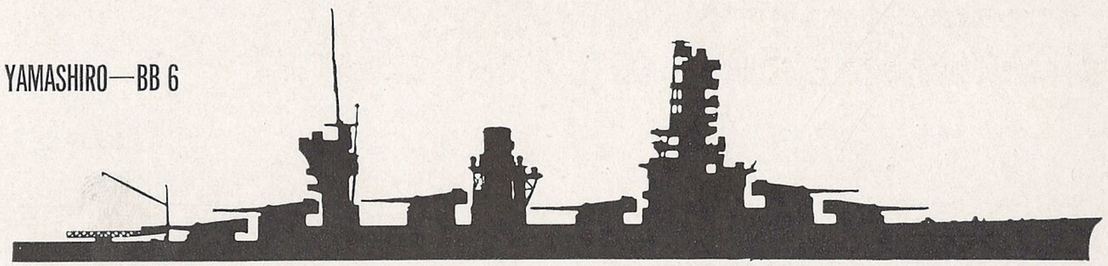
KONGO CLASS—BB 1-4



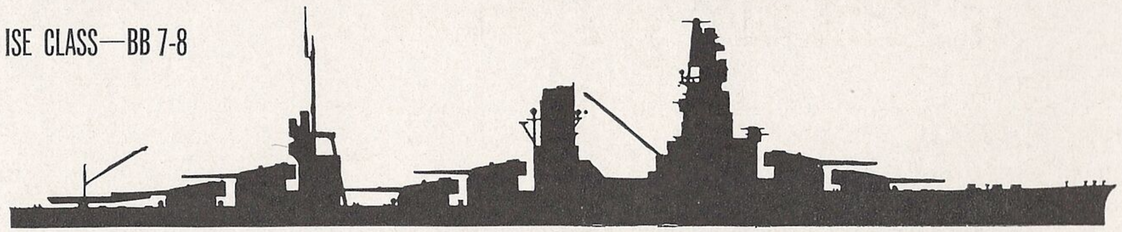
FUSO—BB 5



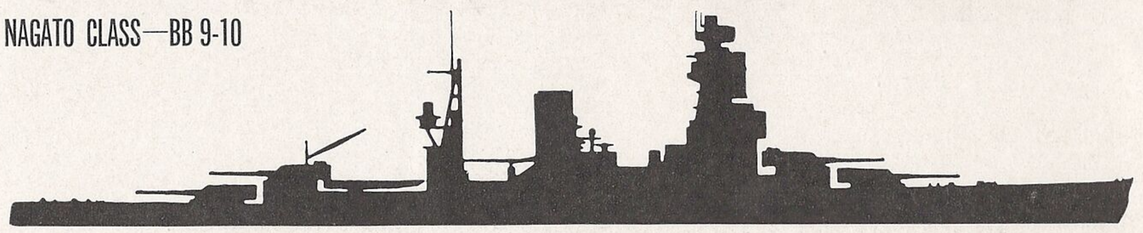
YAMASHIRO—BB 6



ISE CLASS—BB 7-8

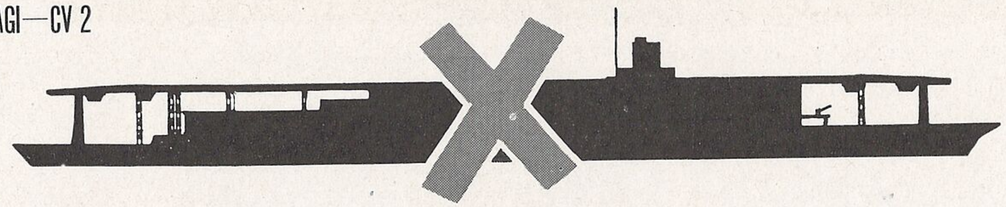


NAGATO CLASS—BB 9-10

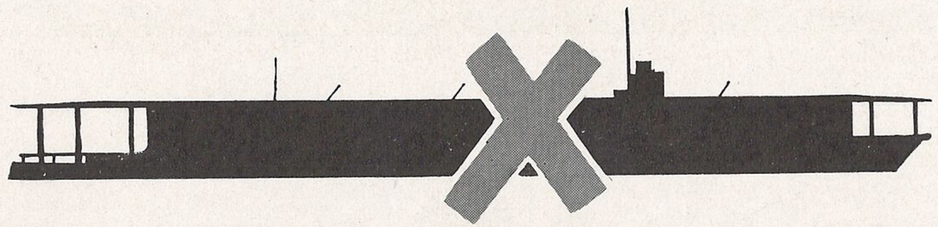


HOSHO—CV 1

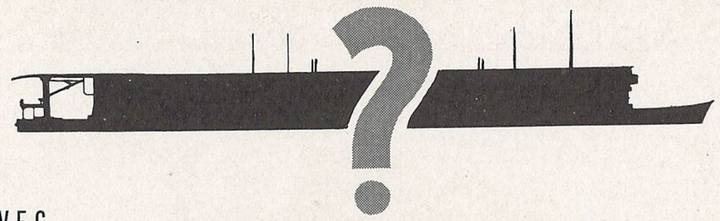
AKAGI—CV 2



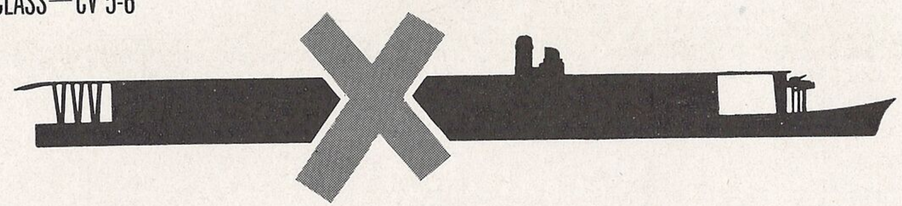
KAGA—CV 3



RYUJO—CV 4



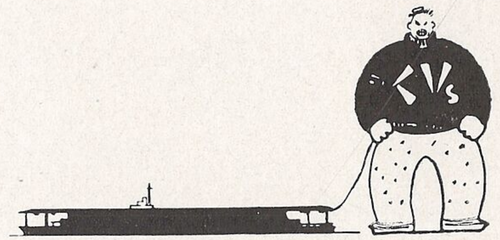
SORYU CLASS—CV 5-6



SHOKAKU CLASS—CV 7-8

if they have upper works at all

the JAP'S CV'S are very small

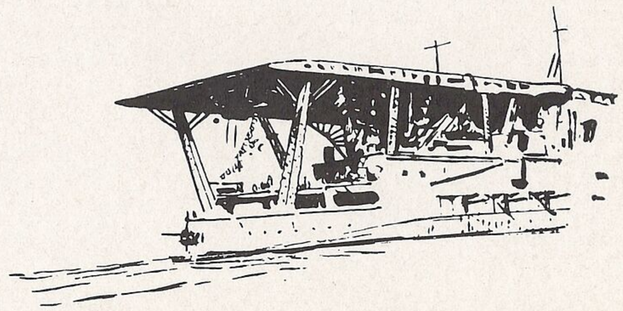


and bow or stern

approach to some

suggests a

nagasaki slum



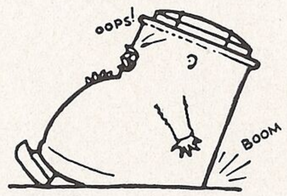
HEAVY CRUISERS

the NIPS big cruisers'

forward stack

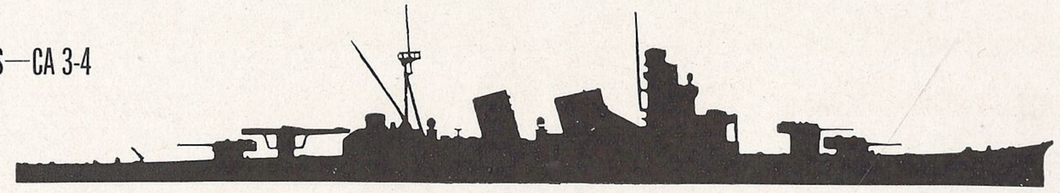
is always fat

and falling back

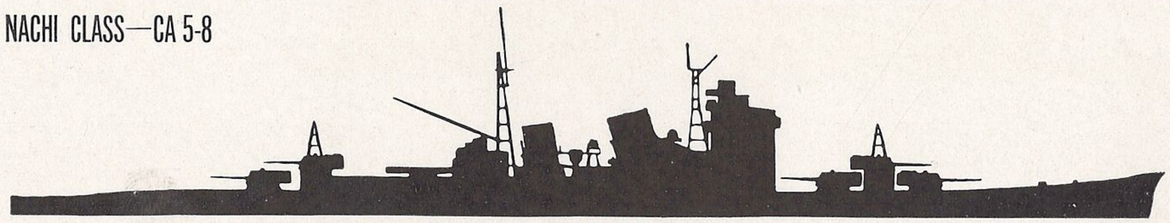


FURUTAKA CLASS—CA 1-2

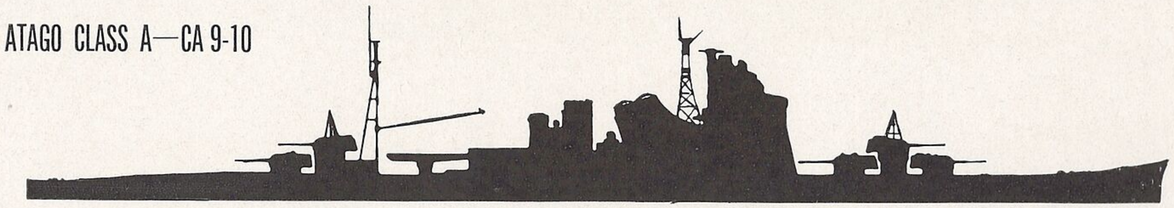
AOBA CLASS—CA 3-4



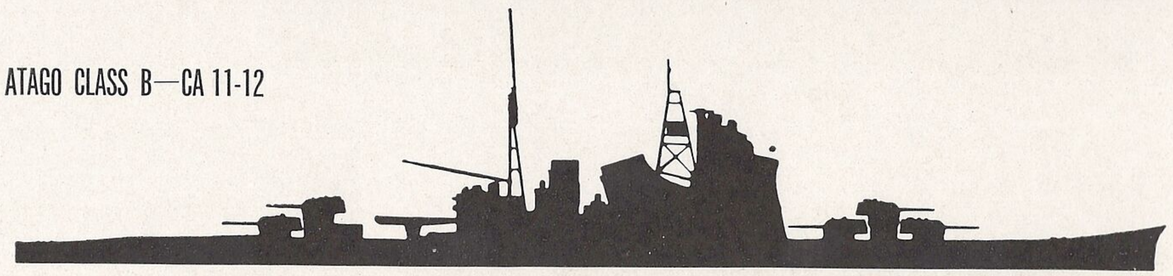
NACHI CLASS—CA 5-8



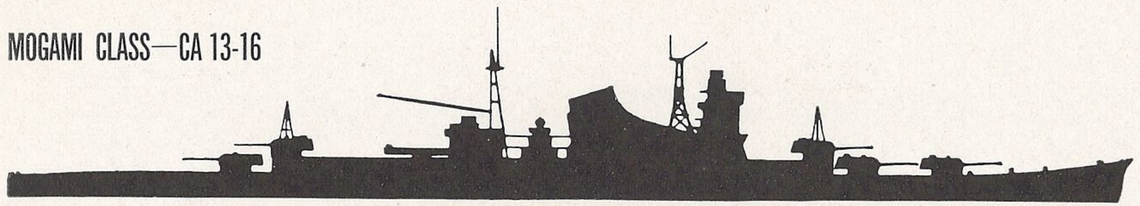
ATAGO CLASS A—CA 9-10



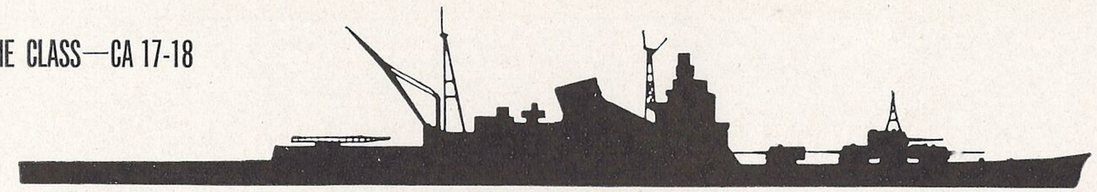
ATAGO CLASS B—CA 11-12



MOGAMI CLASS—CA 13-16

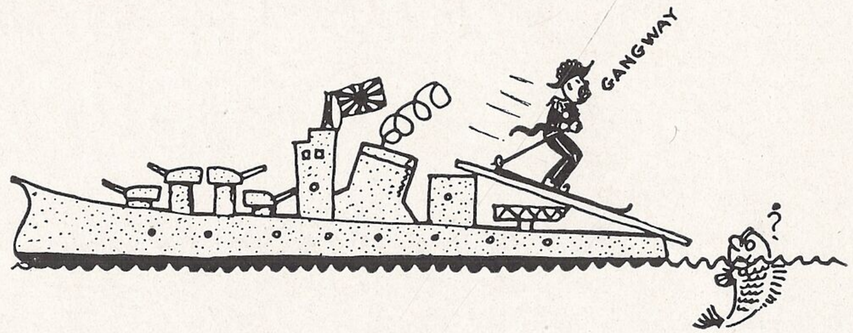


TONE CLASS—CA 17-18



CHIKUMA is a TONE(Y) craft

four turrets fore, a ski-slide aft



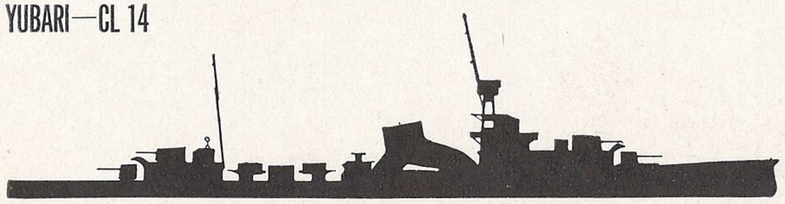
it's well with these

in mind to carry

the "hornpipe" of

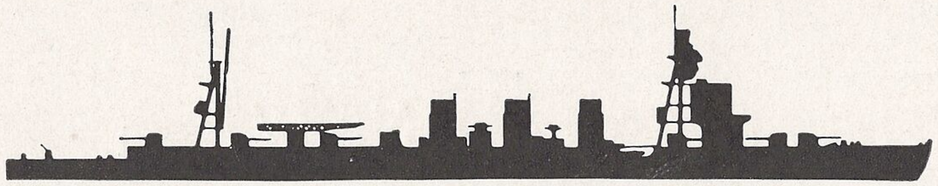
CL YUBARI

YUBARI—CL 14



LIGHT CRUISERS

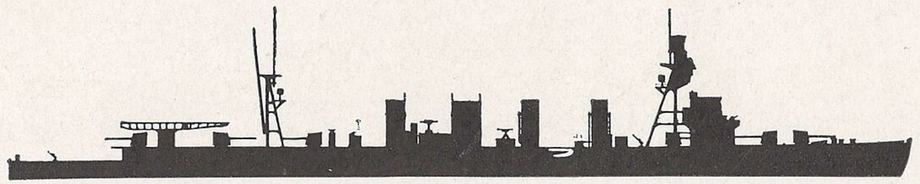
NATORI CLASS—CL 8-13



all the NATORI cruisers show

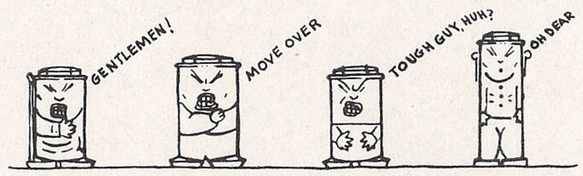
three stocky nippos in a row

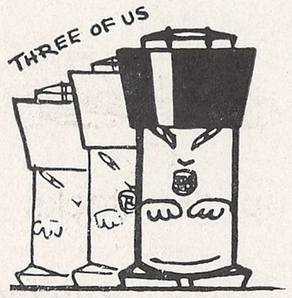
SENDAI CLASS—CL 15-17



and SENDAI with her sisters bore,

when last observed, a row of four





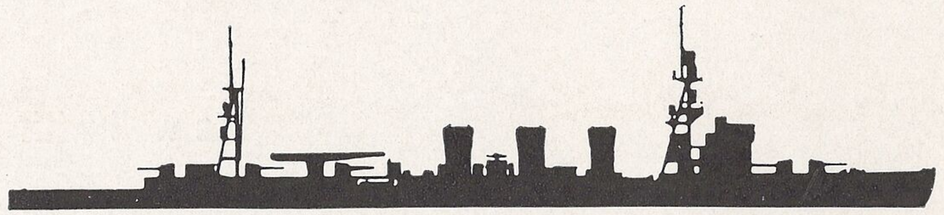
the KUMA class

has for its share

three stacks wide-flared

for anti-flare

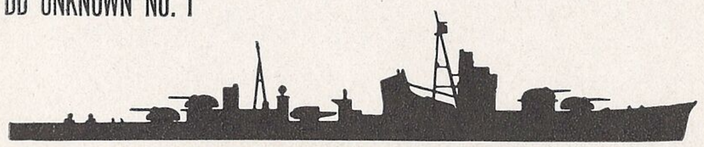
KUMA CLASS—CL 3-7



TENRYU CLASS—CL 1, 2

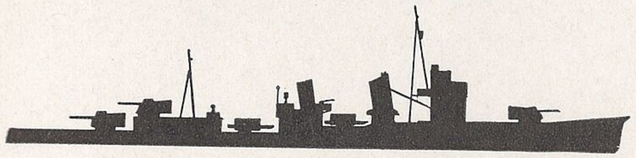
DESTROYERS

DD UNKNOWN NO. 1

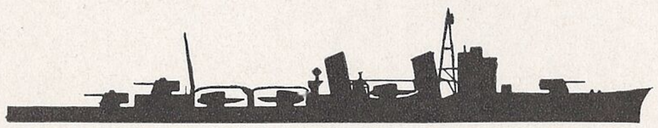


HATSUHARU CLASS—DD 60-65

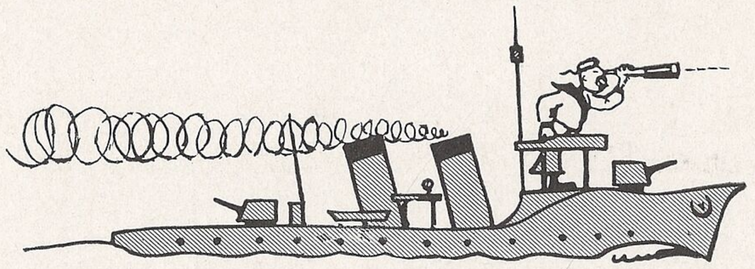
ASASHIO CLASS—DD 76-85 KAGERO CLASS—DD 86-117



FUBUKI—DD 37-59



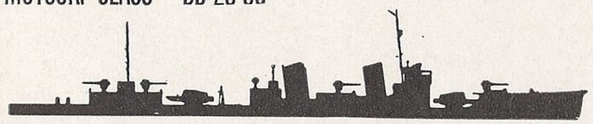
SHIGURE CLASS—DD 66-75



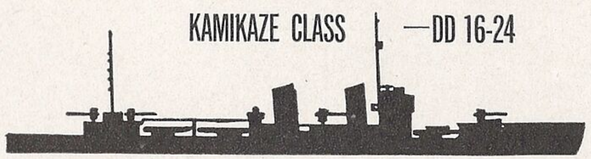
the newer NIP DD combines

sharp raking stacks and wavy lines

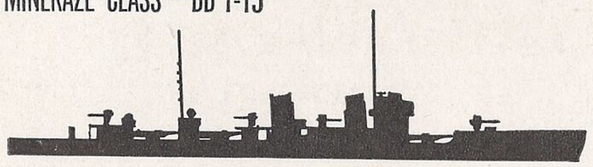
MUTSUKI CLASS—DD 25-36



KAMIKAZE CLASS —DD 16-24



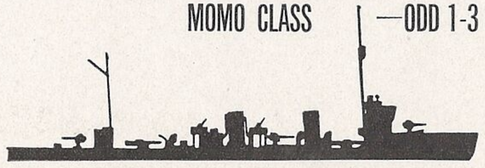
MINEKAZE CLASS—DD 1-15

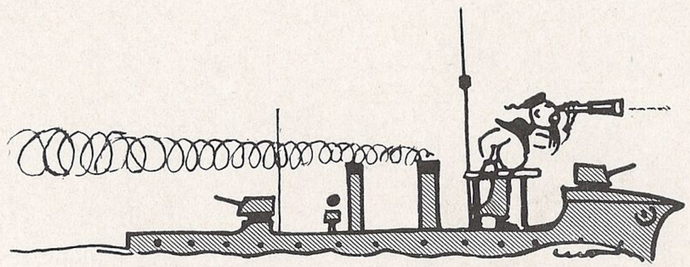


MOMI CLASS—ODD 4-22

WAKATAKE CLASS—ODD 23-29

MOMO CLASS —ODD 1-3





the older ships have upright stacks

and all their bows have turtle-backs

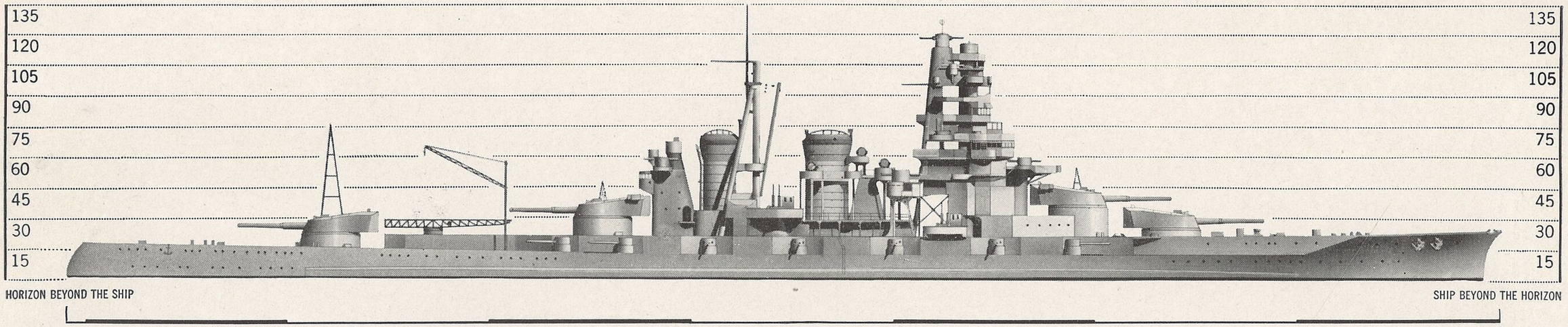
NINPOTES

BATTLESHIPS

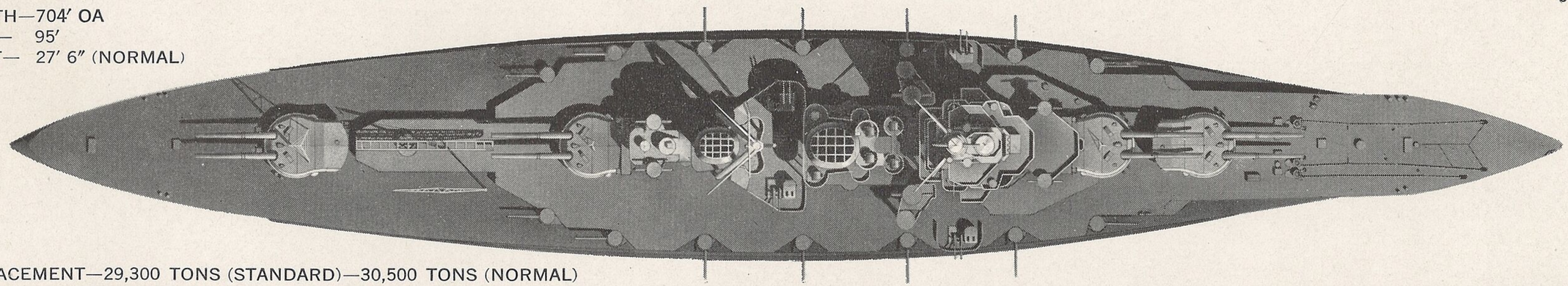
ONI 41-42 RESTRICTED

KONGO CLASS BB—1-4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—NOVEMBER, 1942

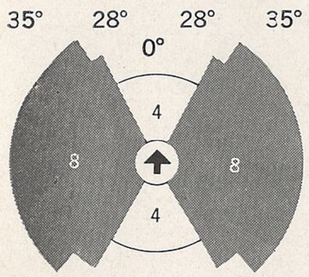


LENGTH—704′ OA
BEAM— 95′
DRAFT— 27′ 6″ (NORMAL)



DISPLACEMENT—29,300 TONS (STANDARD)—30,500 TONS (NORMAL)

DENSITY OF FIRE
MAIN BATTERY



ARMAMENT

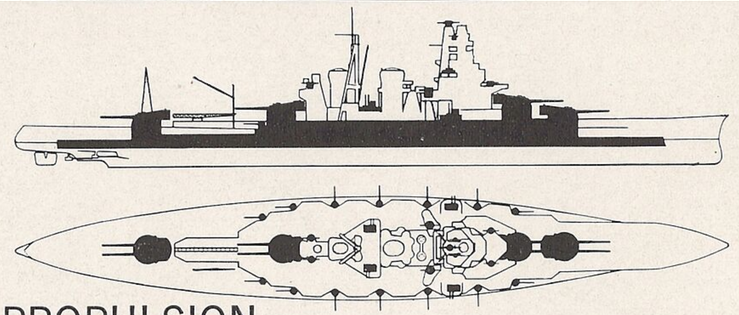
	MAX. ELEV.	RANGE
8–14″ (45)	30°	30,000 YD.
14–6″ (50) CASEMATES	25°	19,000 YD.
8–5″ AA TWIN MOUNTS	85°	18,000 YD.

1 CATAPULT, 3 SCOUT OBSERVATION

NOTE: HIYEI, ONCE DEMILITARIZED; MAY HAVE WEAKER ORDNANCE.

PROTECTION

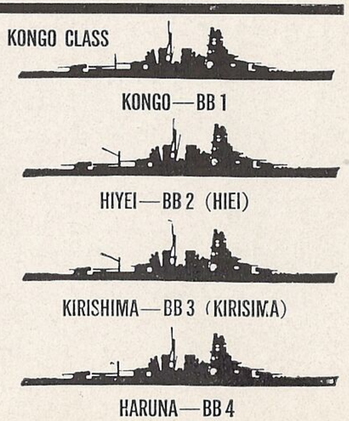
BELT—	6″–8″ WITH 3″ ENDS
TURRETS—	9″–10″
BARBETTES—	10″
CONNING TOWER—	10″
DECK—	2¾″–4″; 7″ OVER VITALS



PROPULSION

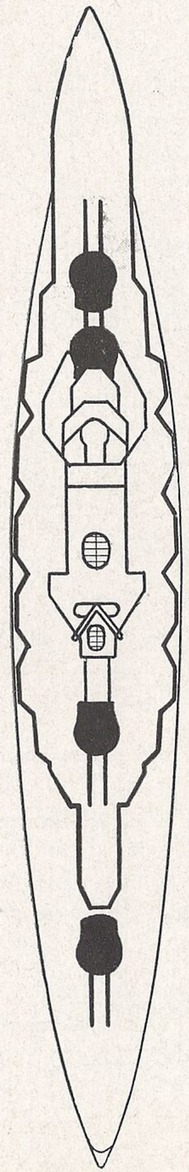
DES HP— 78,000 DES SPEED—26 KNOTS

ENDURANCE—3,500 @ 26 KNOTS 12,600 @ 12 KNOTS



KONGO CLASS —BB 1-4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —DECEMBER, 1942



PROFILE—
LOW PAGODA FOREMAST
TWO FLARED SINGLE PIPE STACKS
HIGH TRIPOD MAINMAST FOR'D OF AFT STACK

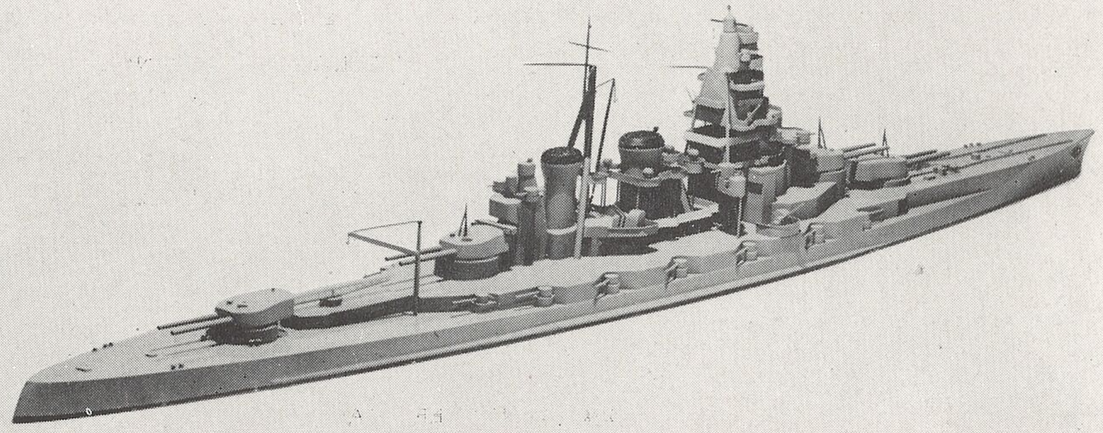
AERIAL—
TURRETS—
TWO SUPERIMPOSED TWINS FOR'D
TWO TWINS AFT, SEPARATED BY CATAPULT

END-ON—
HIGH, PYRAMIDAL SUPERSTRUCTURE
EXTREMELY WIDE BEAM

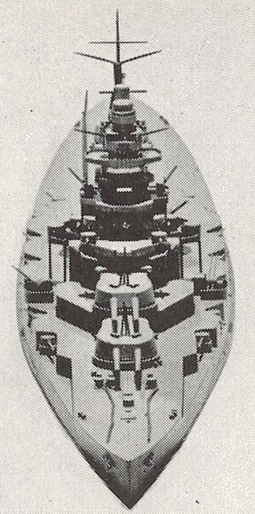
45°

90°

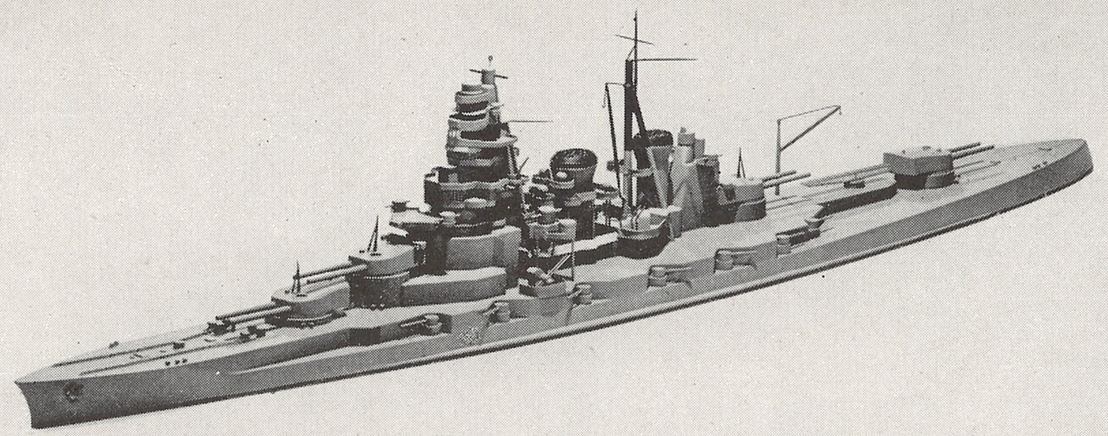
135°

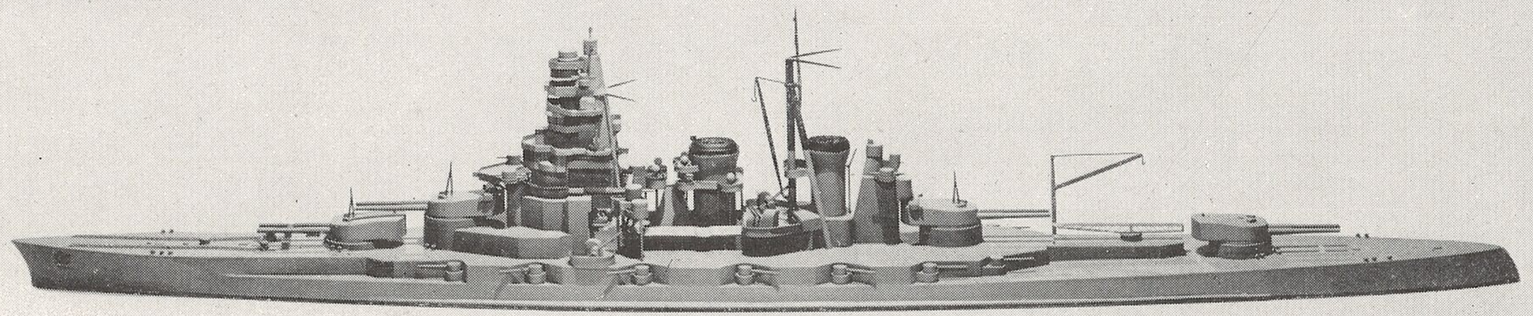


0°

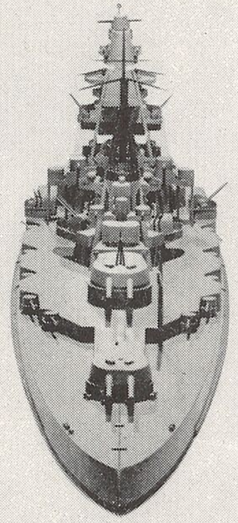


315°

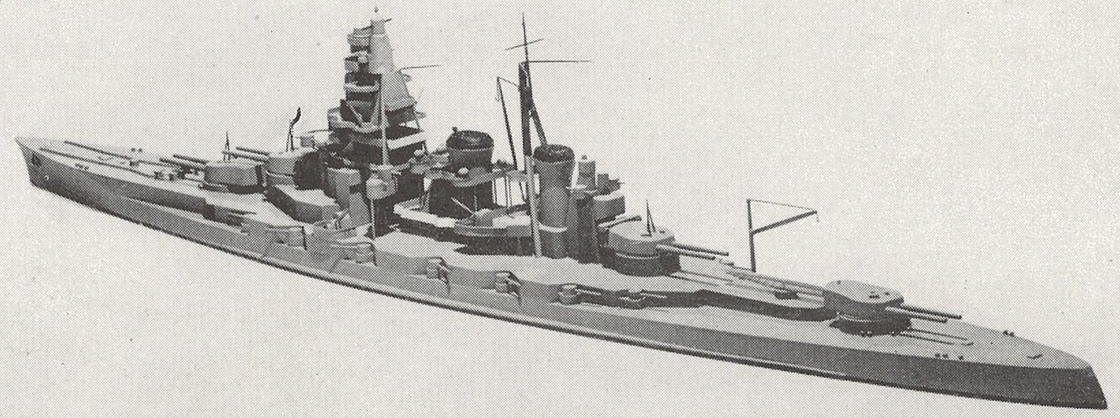




270°



180°



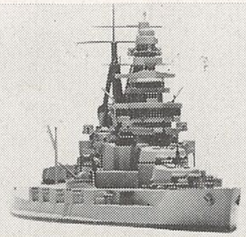
225°

KONGO CLASS—BB 1-4

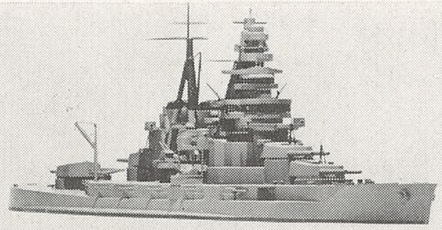
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION.—DECEMBER, 1942

0°

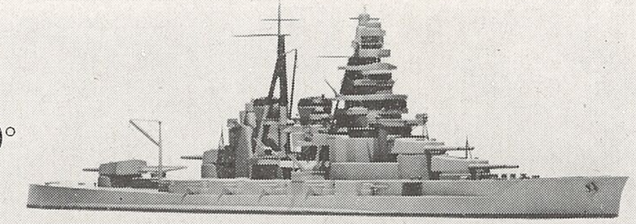
10°



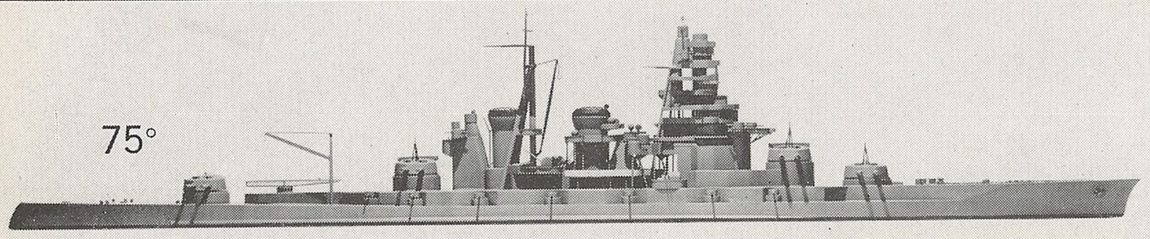
20°



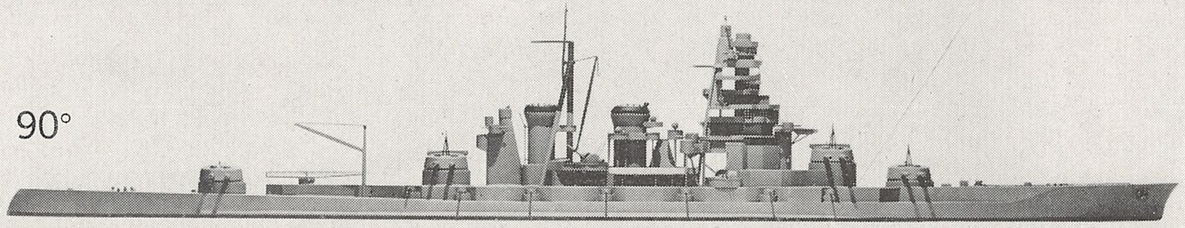
30°



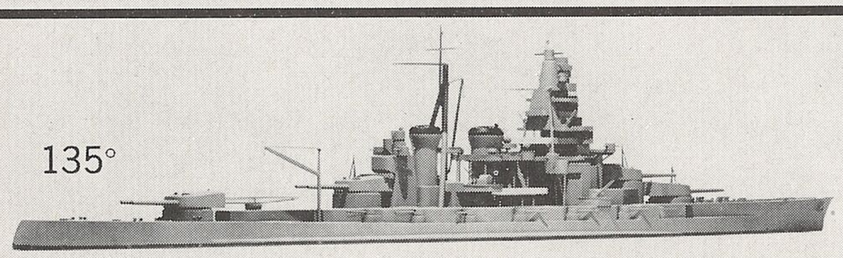
75°



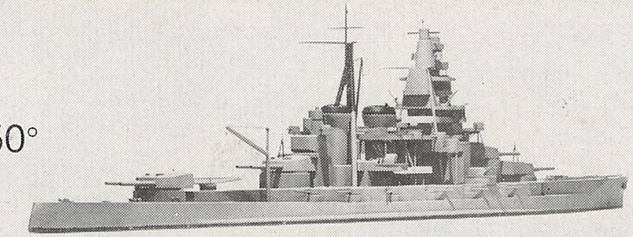
90°



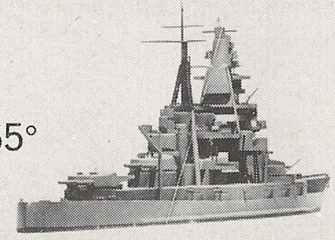
135°



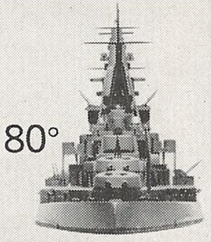
150°



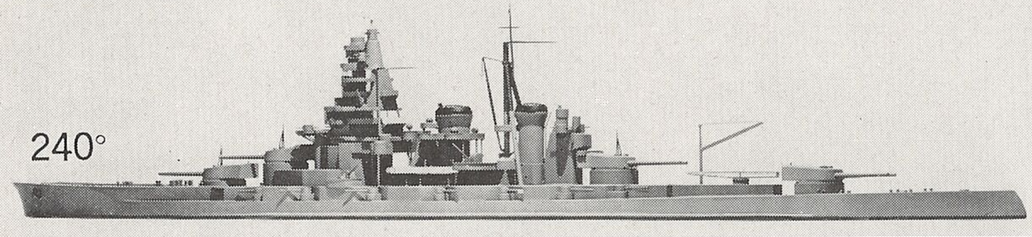
165°



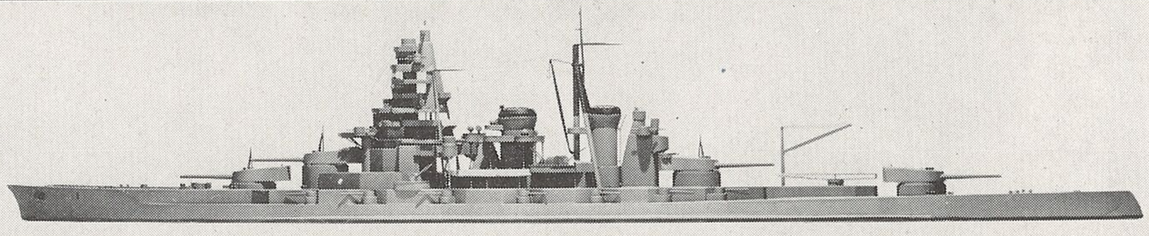
180°



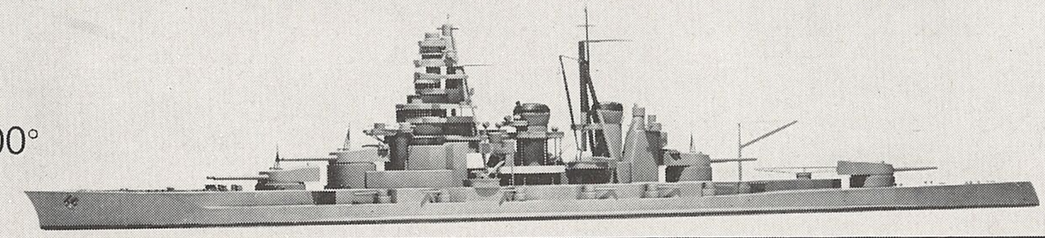
240°



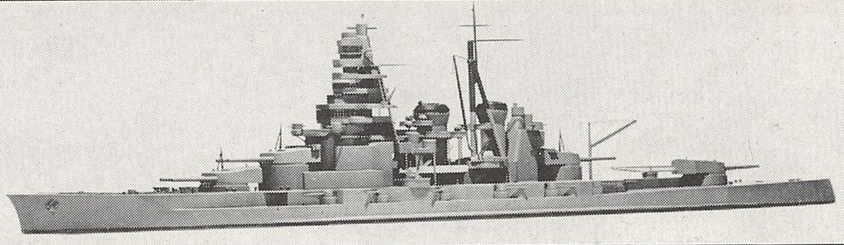
255°



300°



315°



ONI 41-42

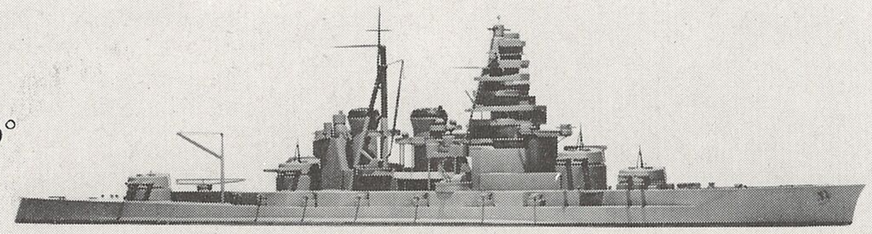
KNOTS	RPM
	400
	375
	350
	325

KNOTS	RPM
26	300
	275
	250
	225

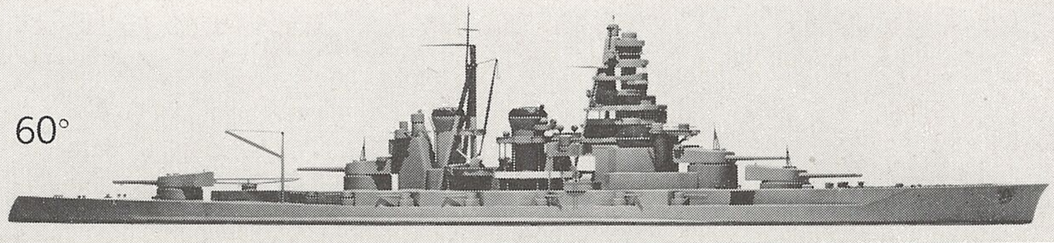
KNOTS	RPM
	200
	175
	150
	125

KNOTS	RPM
	100
	75
	50
	25

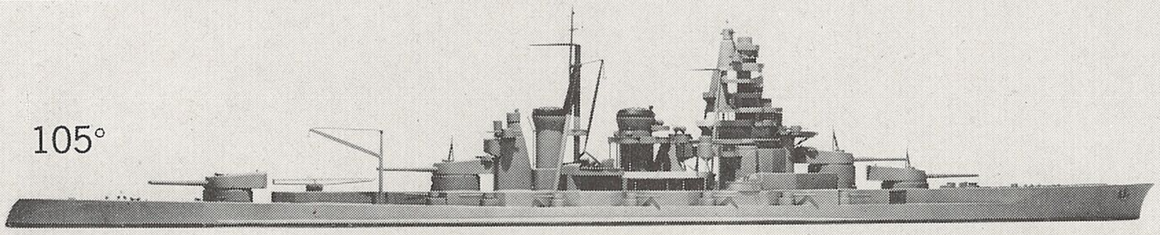
45°



60°



105°



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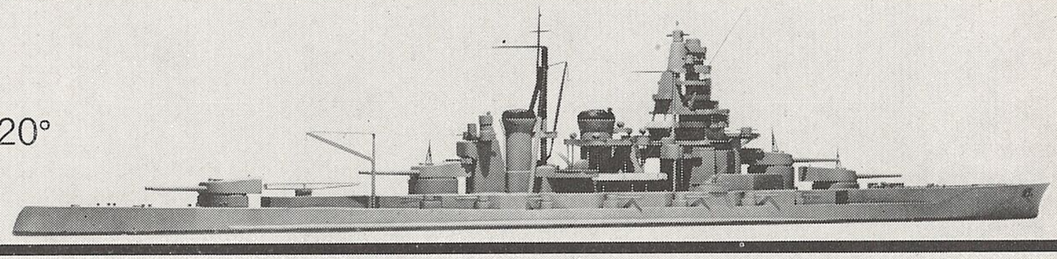
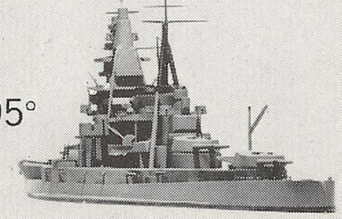
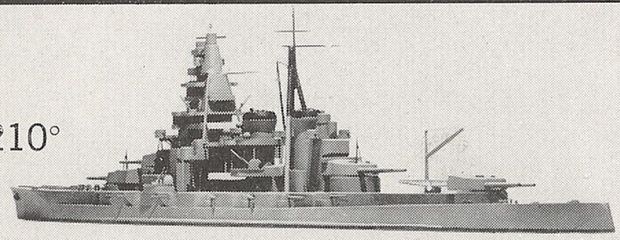


195°



210°



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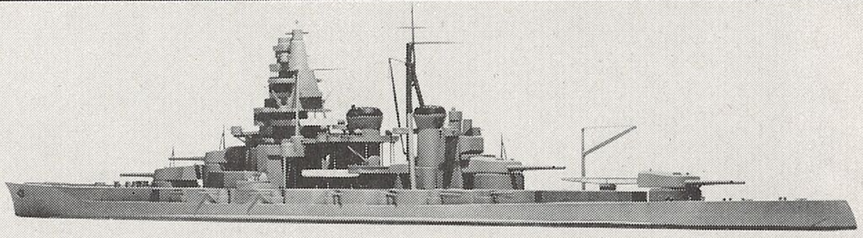
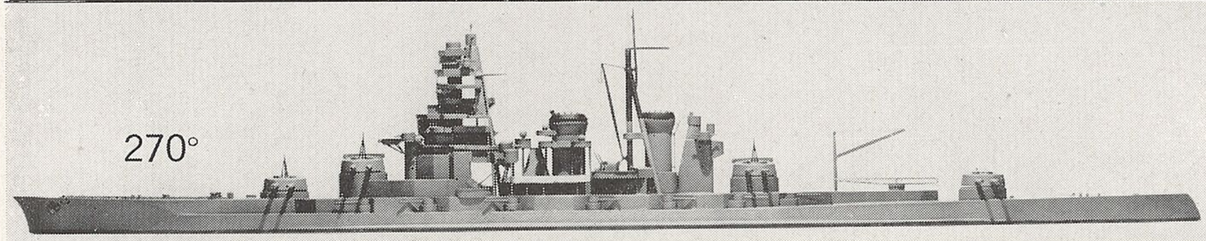
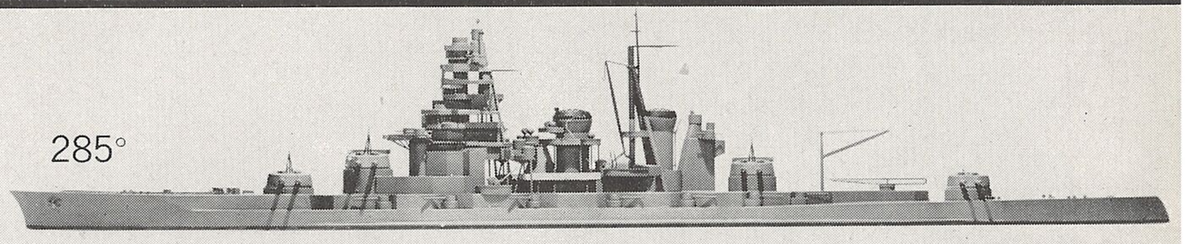


270°

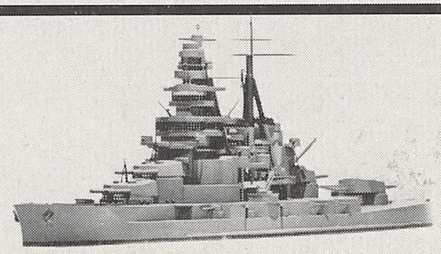


285°



330°

340°



350°

355°

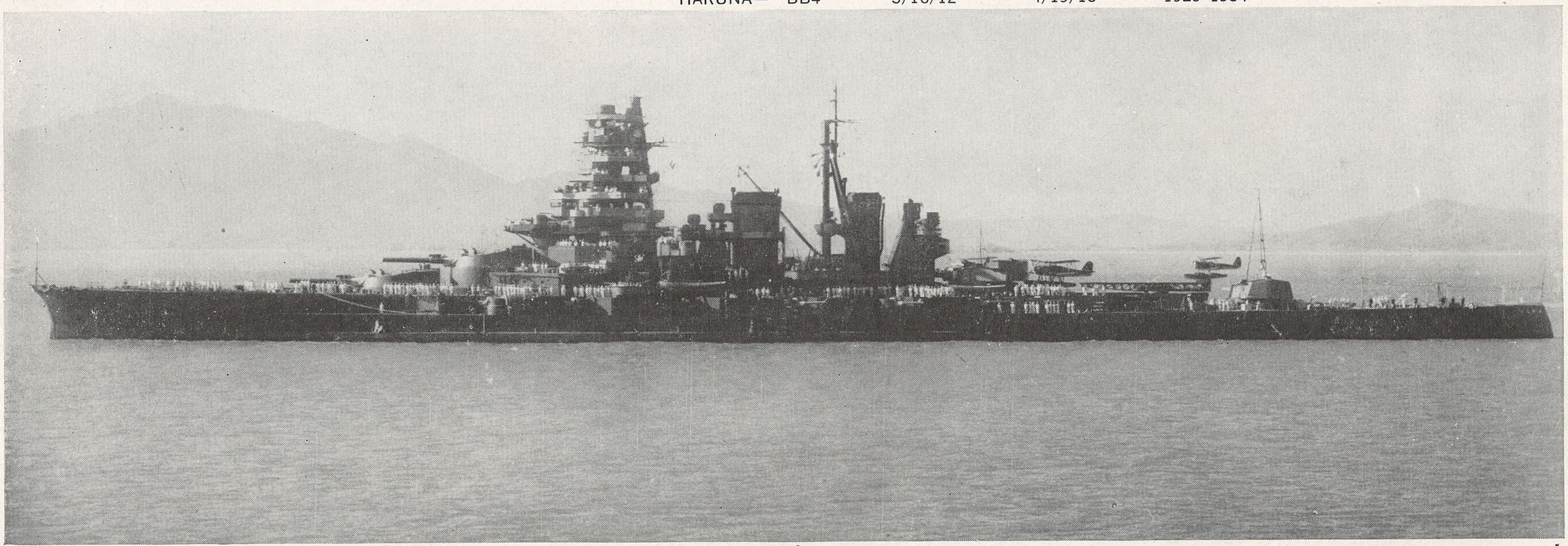
KONGO CLASS—BB1-4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—NOVEMBER, 1942

		BEGUN	COMPLETED	MODERNIZED
KONGO—	BB1	1/17/11	8/16/13	1935–1937
HIYEI—	BB2	11/4/11	8/4/14	1938
KIRISHIMA—	BB3	3/17/12	4/19/15	1926–1930
HARUNA—	BB4	3/16/12	4/19/15	1929–1934

ONI 41-42

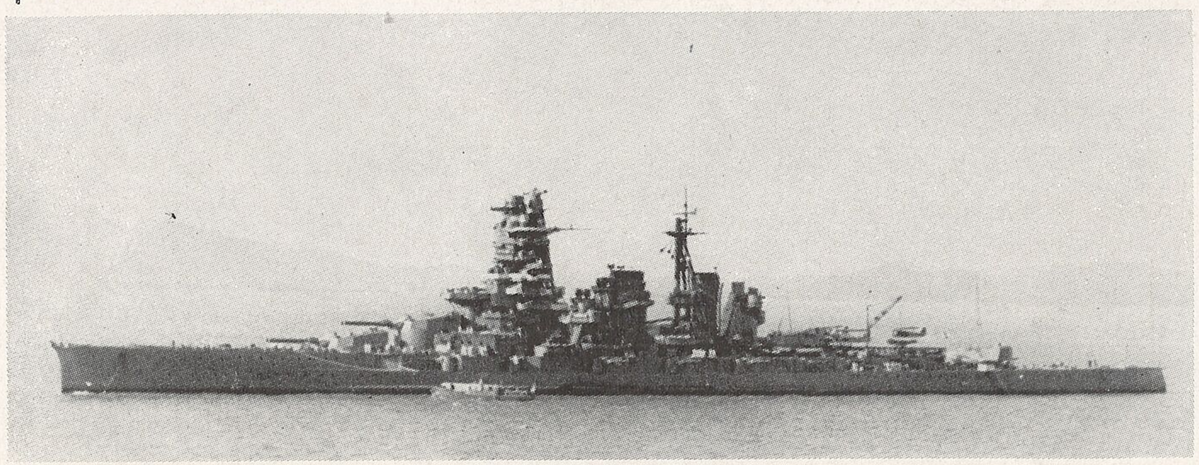
RESTRICTED

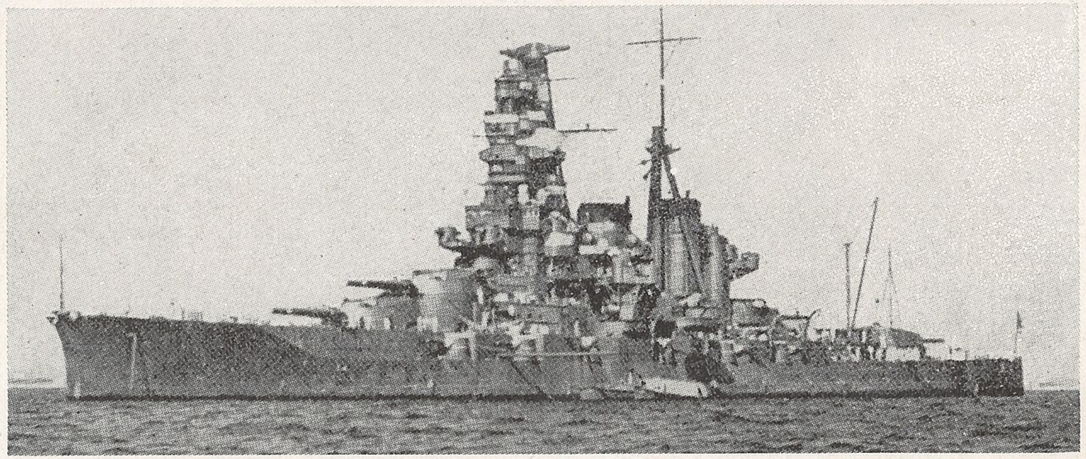


↑ KIRISHIMA—12/19/38

KONGO—12/19/38 ↓

HARUNA—1937 ↓

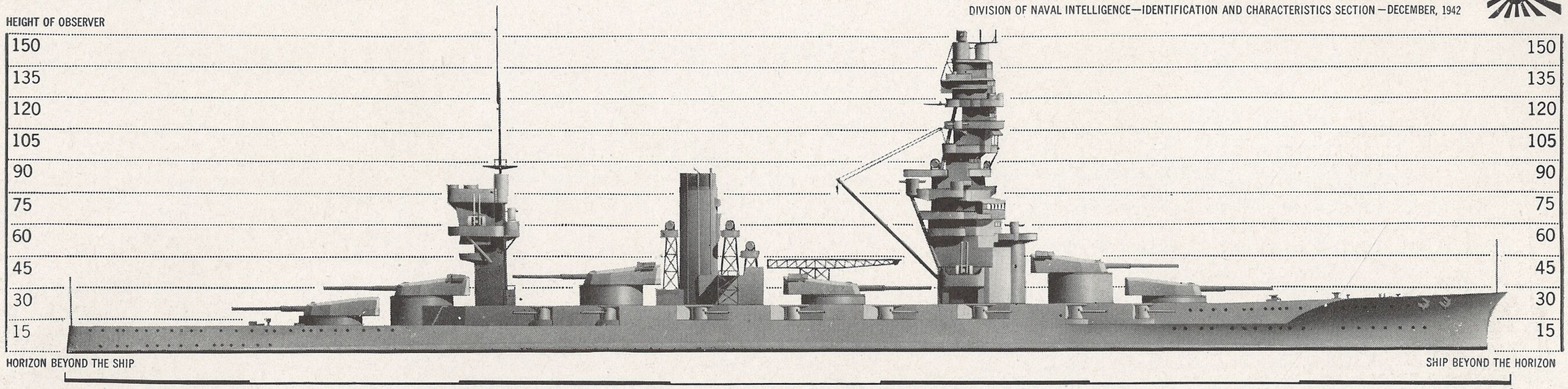




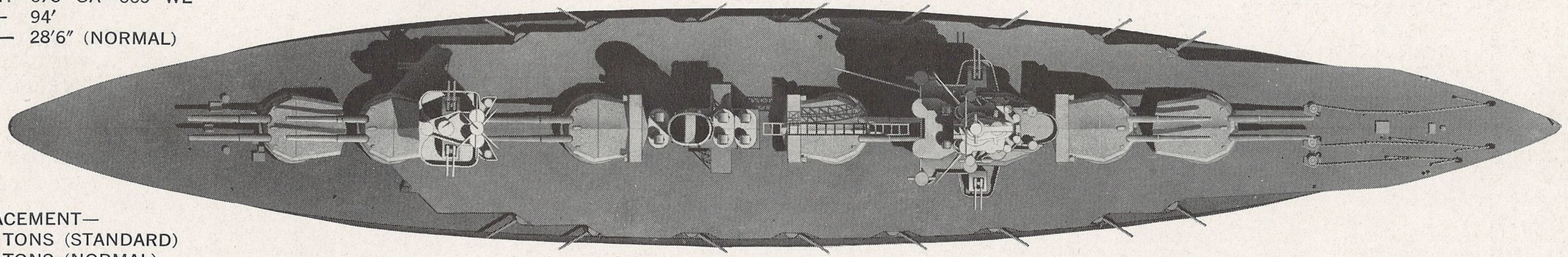
ONI 41-42 RESTRICTED

FUSO—BB 5

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—DECEMBER, 1942

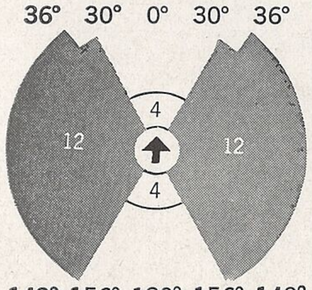


LENGTH—673′ OA—665′ WL
BEAM— 94′
DRAFT— 28′6″ (NORMAL)



DISPLACEMENT—
29,330 TONS (STANDARD)
30,600 TONS (NORMAL)

DENSITY OF FIRE
MAIN BATTERY



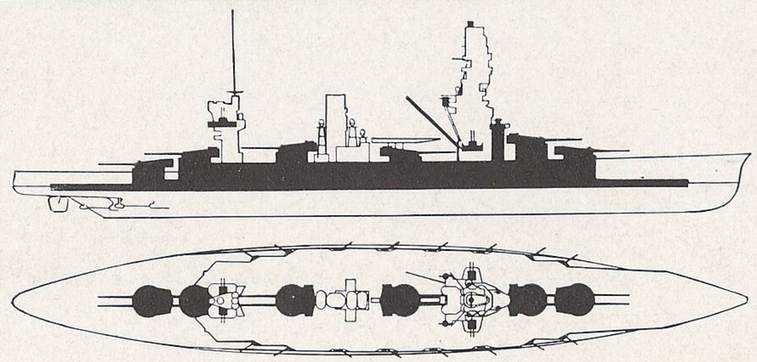
ARMAMENT

	MAX. ELEV.	RANGE
12–14″ (45) TWIN TURRET	30°	30,000 YD.
16–6″ (50) CASEMATES	25°	19,000 YD.
8–5″ A. A. TWIN MOUNTS	85°	18,000 YD.

1 CATAPULT; 3 SCOUT OBSERVATION

PROTECTION

BELT—	8–12″ ENDS 4–5″
TURRETS—	8–12″
BARBETTES—	8–12″
CONNING TOWER—	6–12″
DECK—	2″ 7″ OVER VITALS



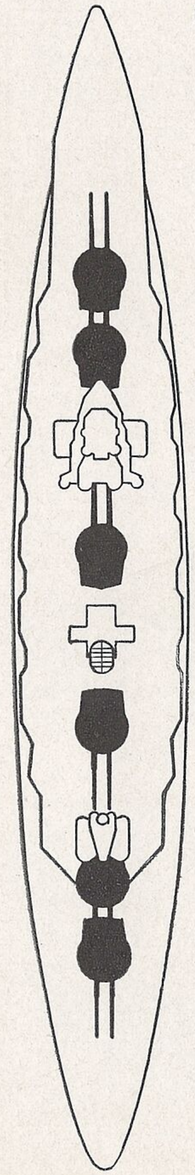
FUSO CLASS

FUSO (HUSO) BB 5

YAMASHIRO (YAMASIRO) BB 6

FUSO—BB 5

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —DECEMBER, 1942

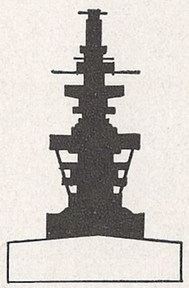


PROFILE—
HIGH, THIN PAGODA FOREMAST
LARGE SINGLE PIPE STACK
TOWER MAINMAST TOPPED BY STICK

→

AERIAL—
TURRETS:
TWIN SUPERIMPOSED FOR'D
TWINS AMIDSHIPS SEPARATED BY STACK
CATAPULT FOR'D OF STACK

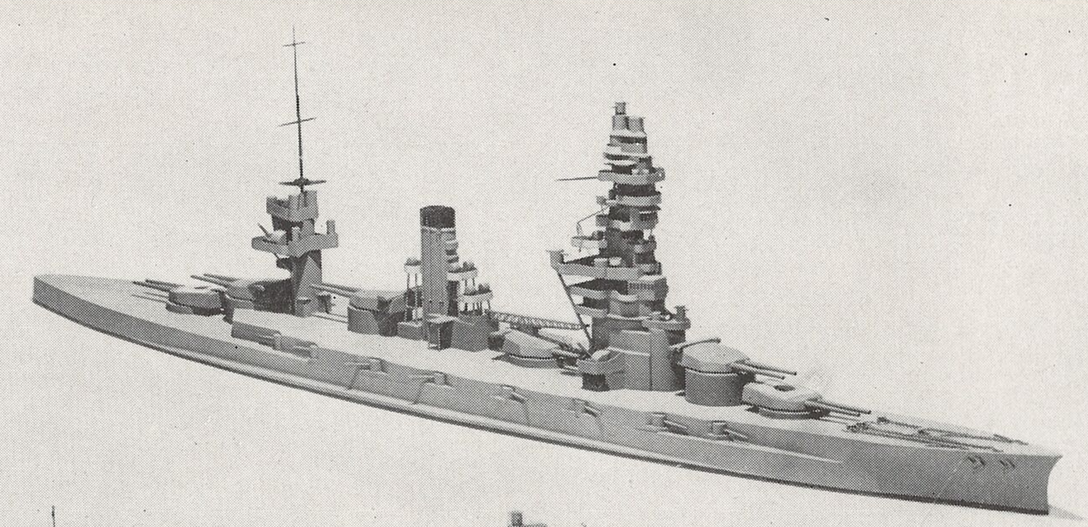
←

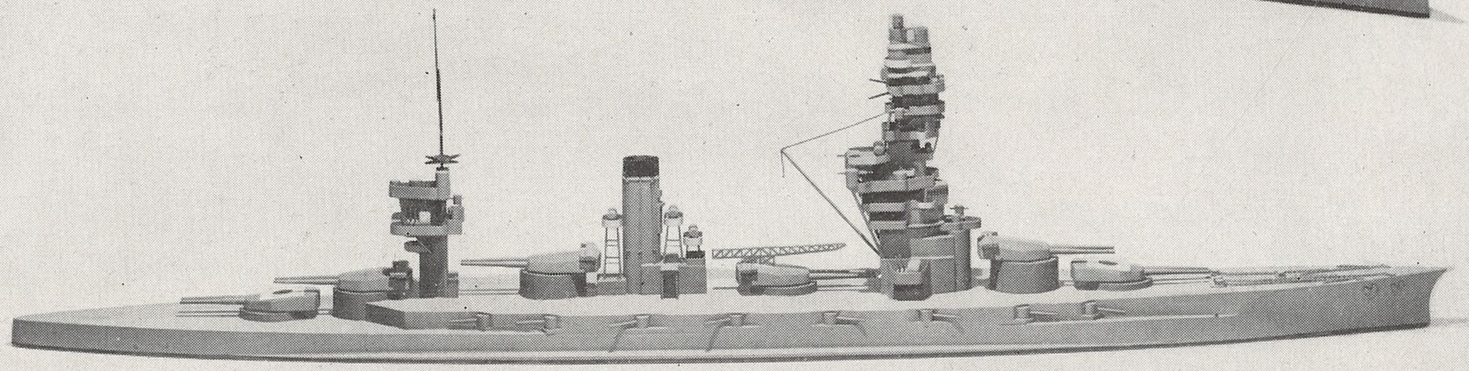


↑

END-ON—
MAY BE MISTAKEN FOR YAMISHIRO

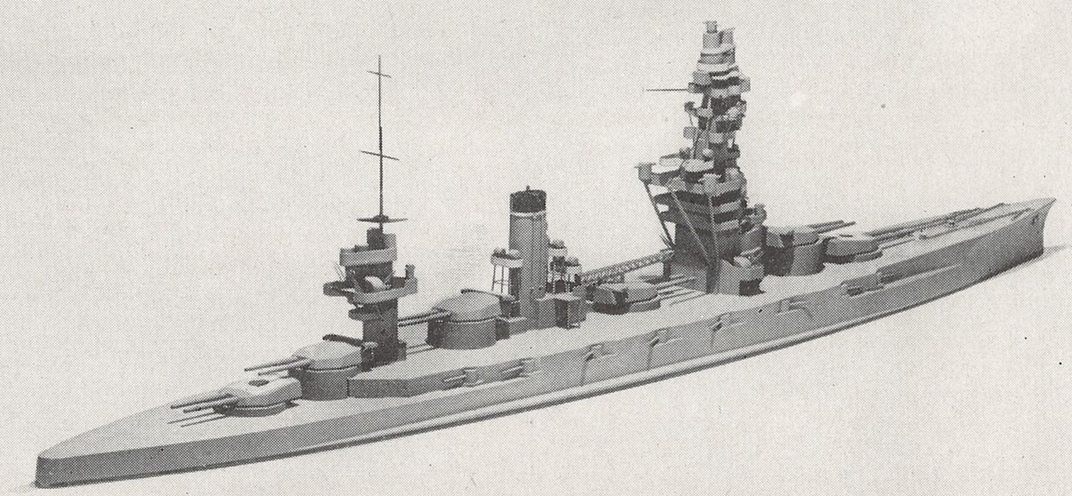
45°



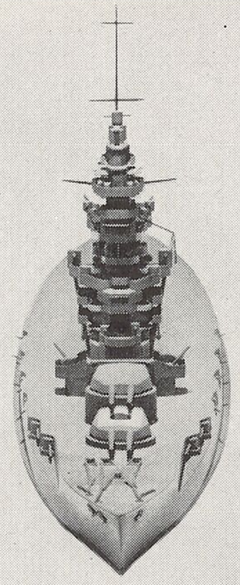


90°

135°



0°



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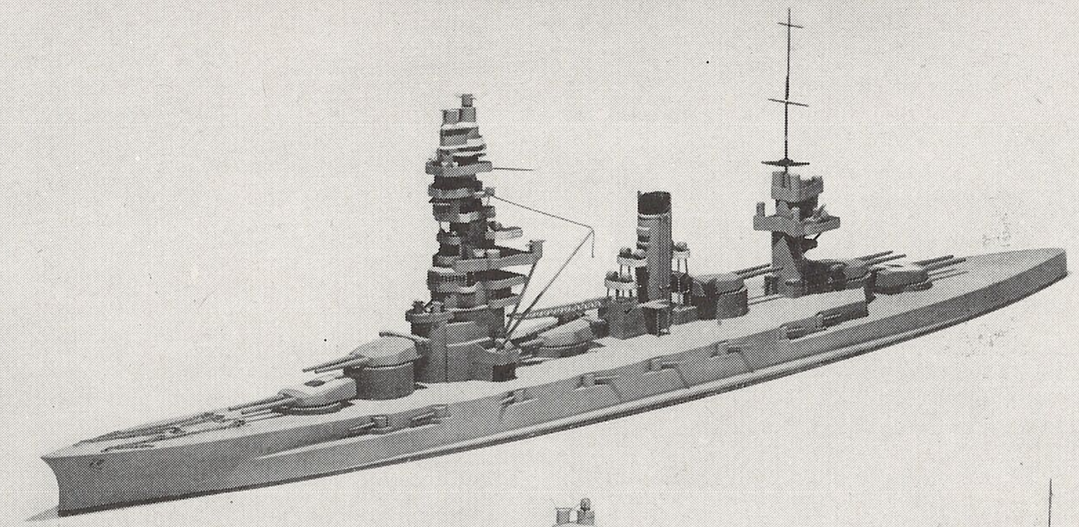
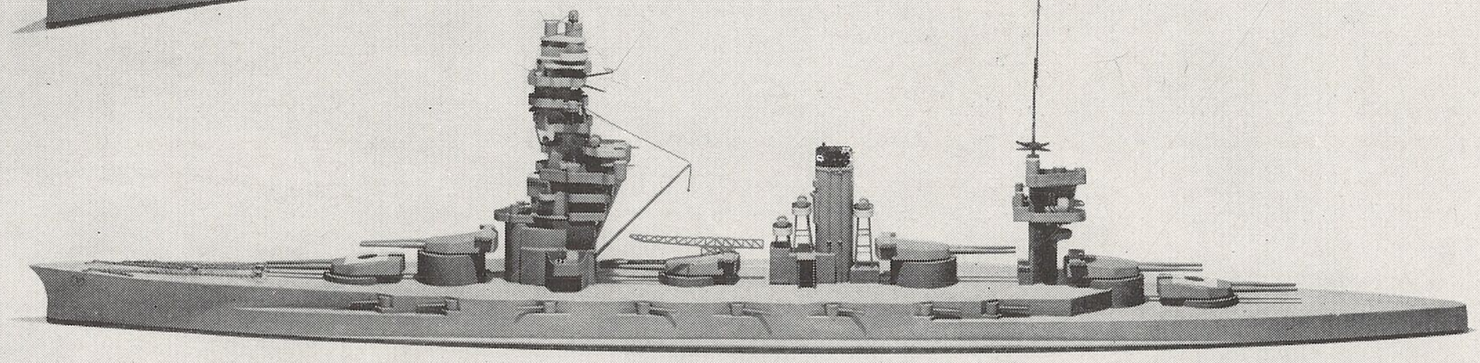
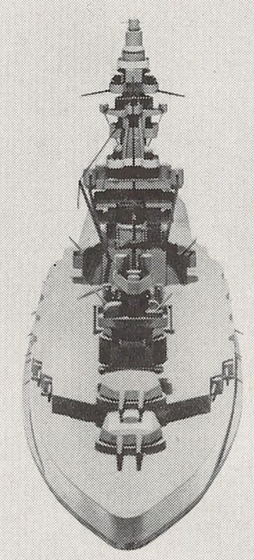
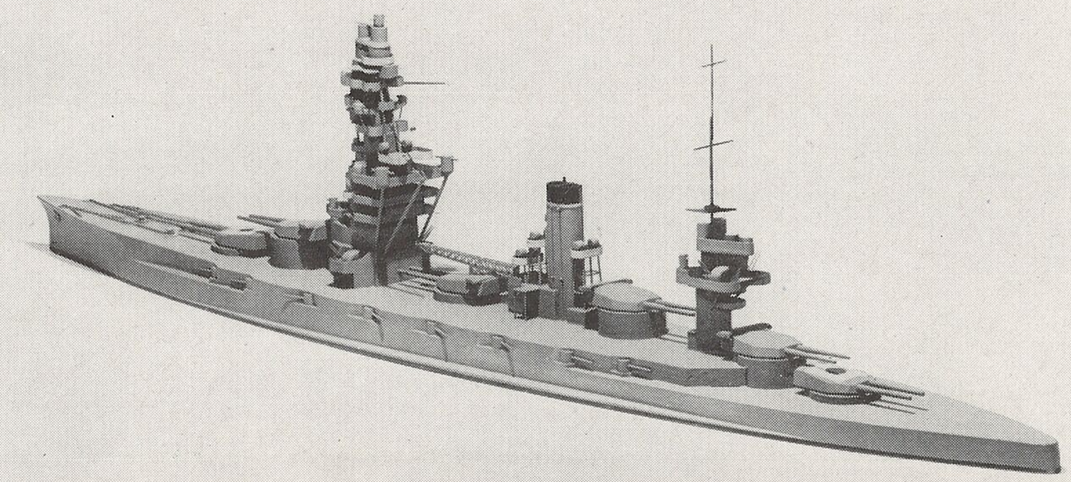




270°



180°



225°

FUSO—BB 5

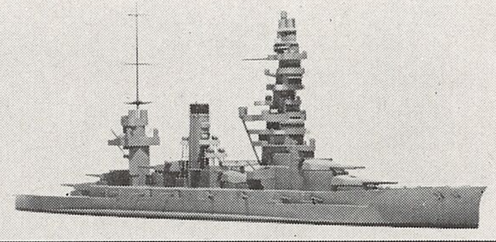
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—DECEMBER, 1942

0°

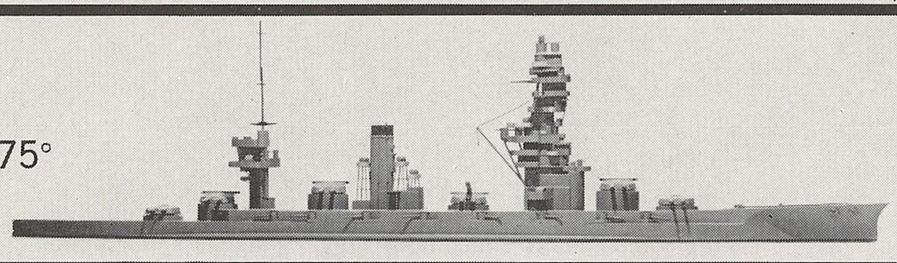
10°

20°

30°



75°



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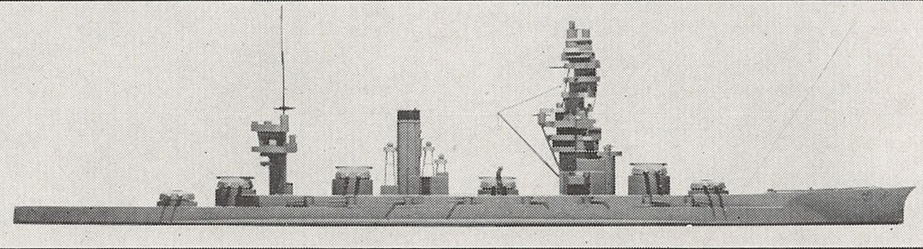

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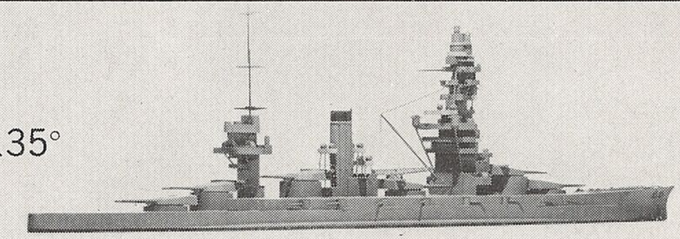

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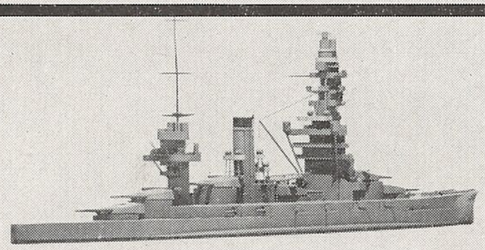
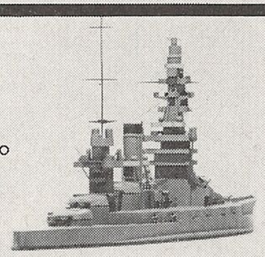
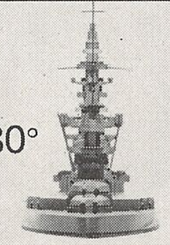


165°



180°



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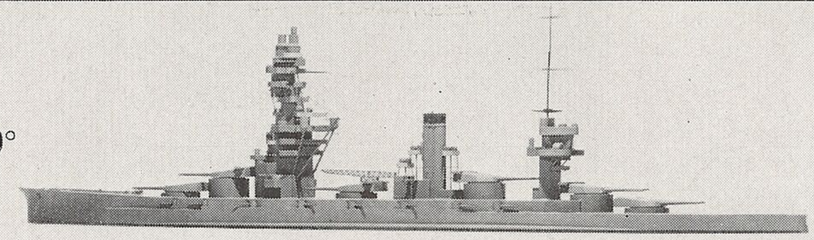
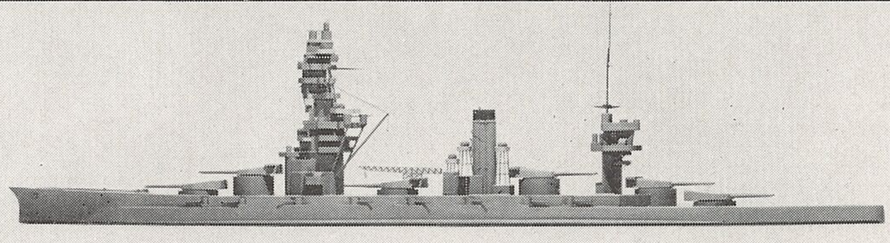
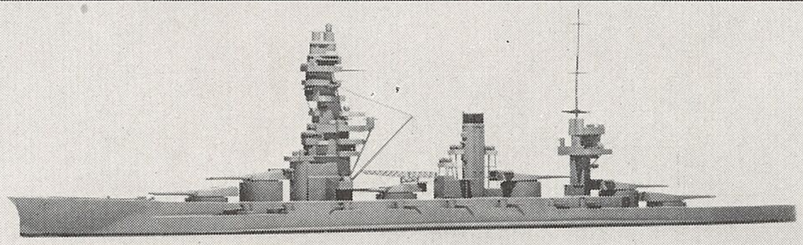


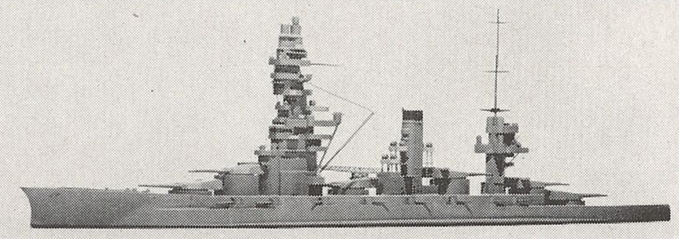
255°



300°



315°



ONI 41-42

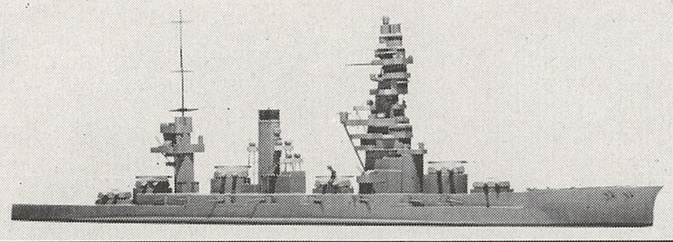
KNOTS	RPM
	400
	375
	350
	325

KNOTS	RPM
	300
23	292
	275
	250

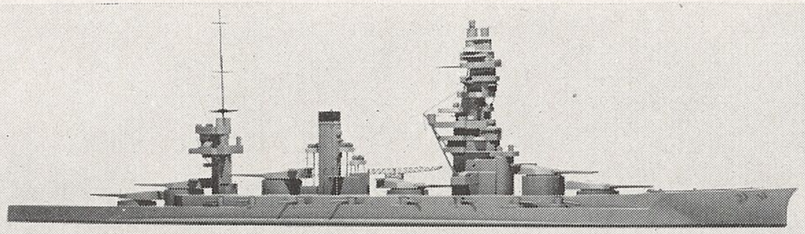
KNOTS	RPM
	225
	200
	175
	150

KNOTS	RPM
	125
	100
	75
	50

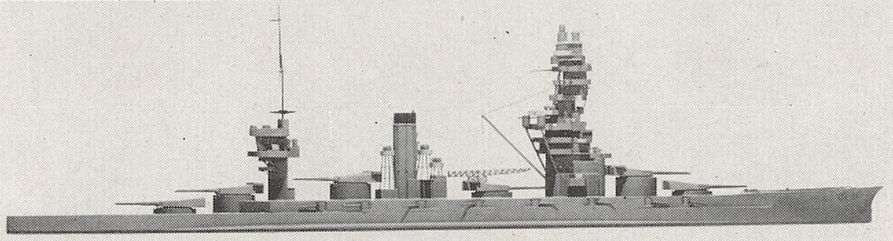
45°



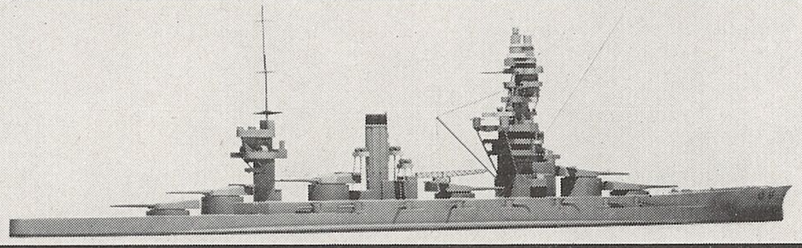
60°



105°



120°



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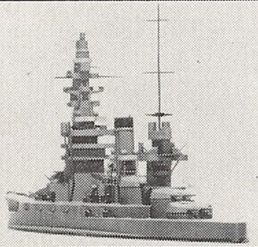

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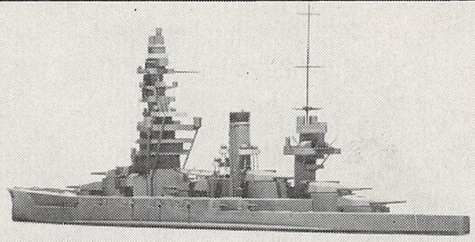
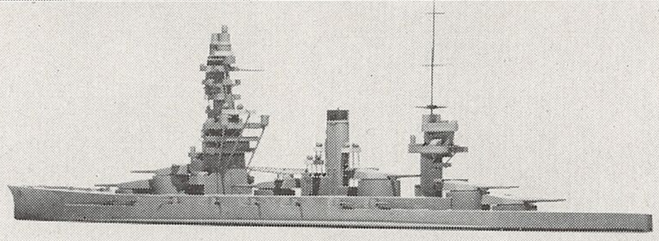
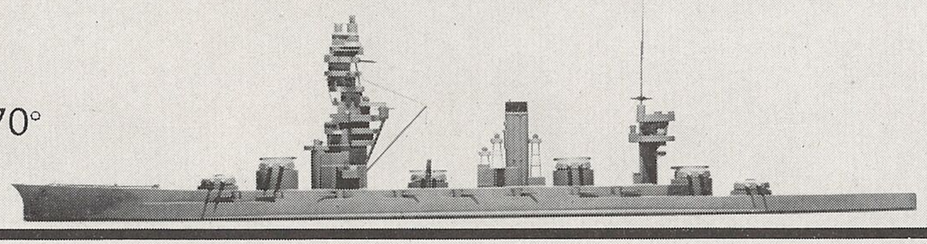


225°



270°



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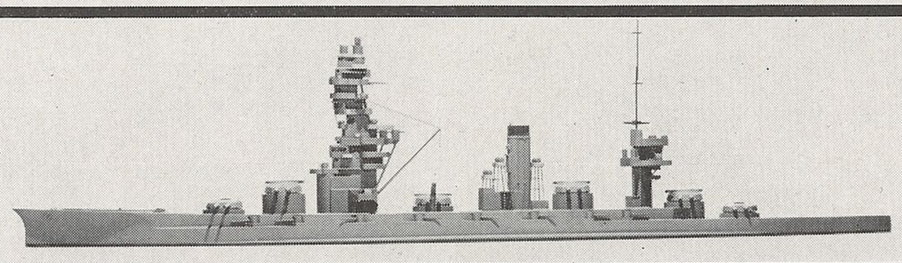

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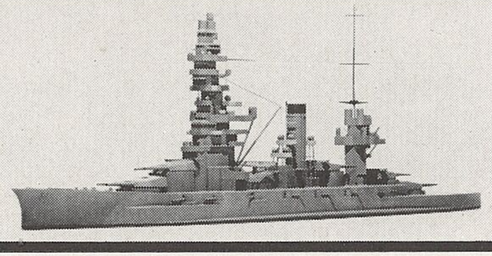


340°

350°

355°

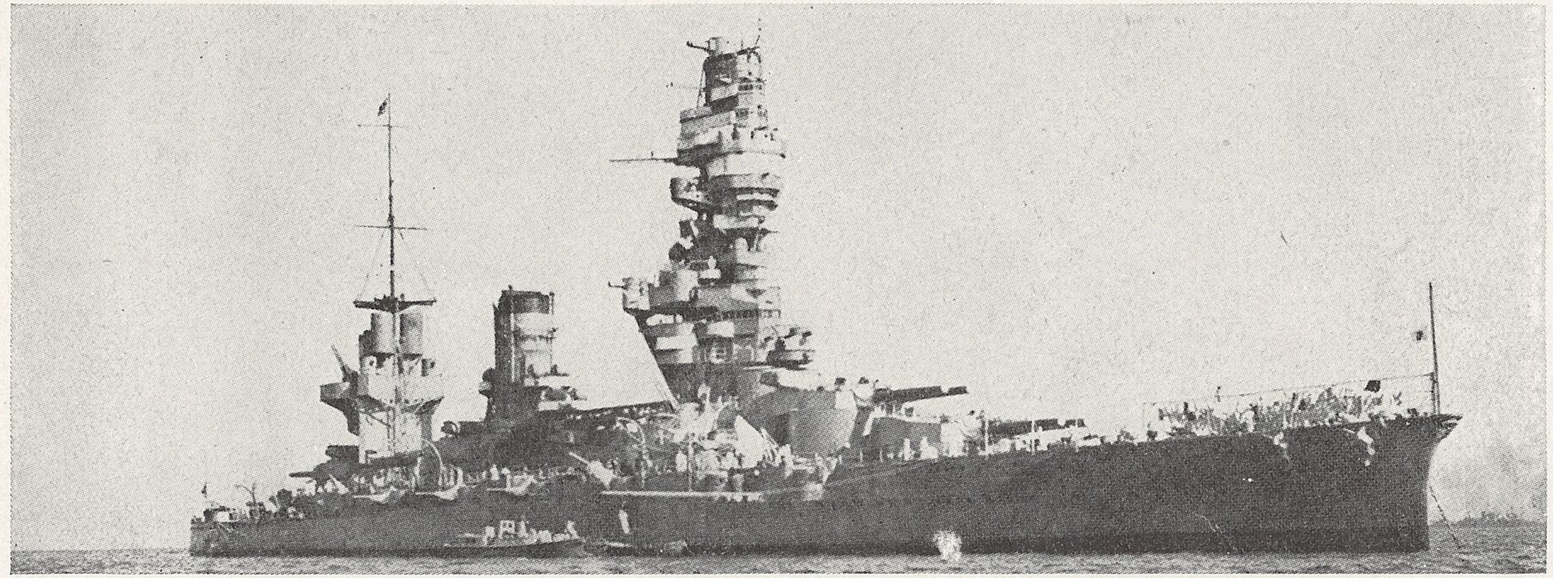
FUSO—BB 5

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —DECEMBER, 1942

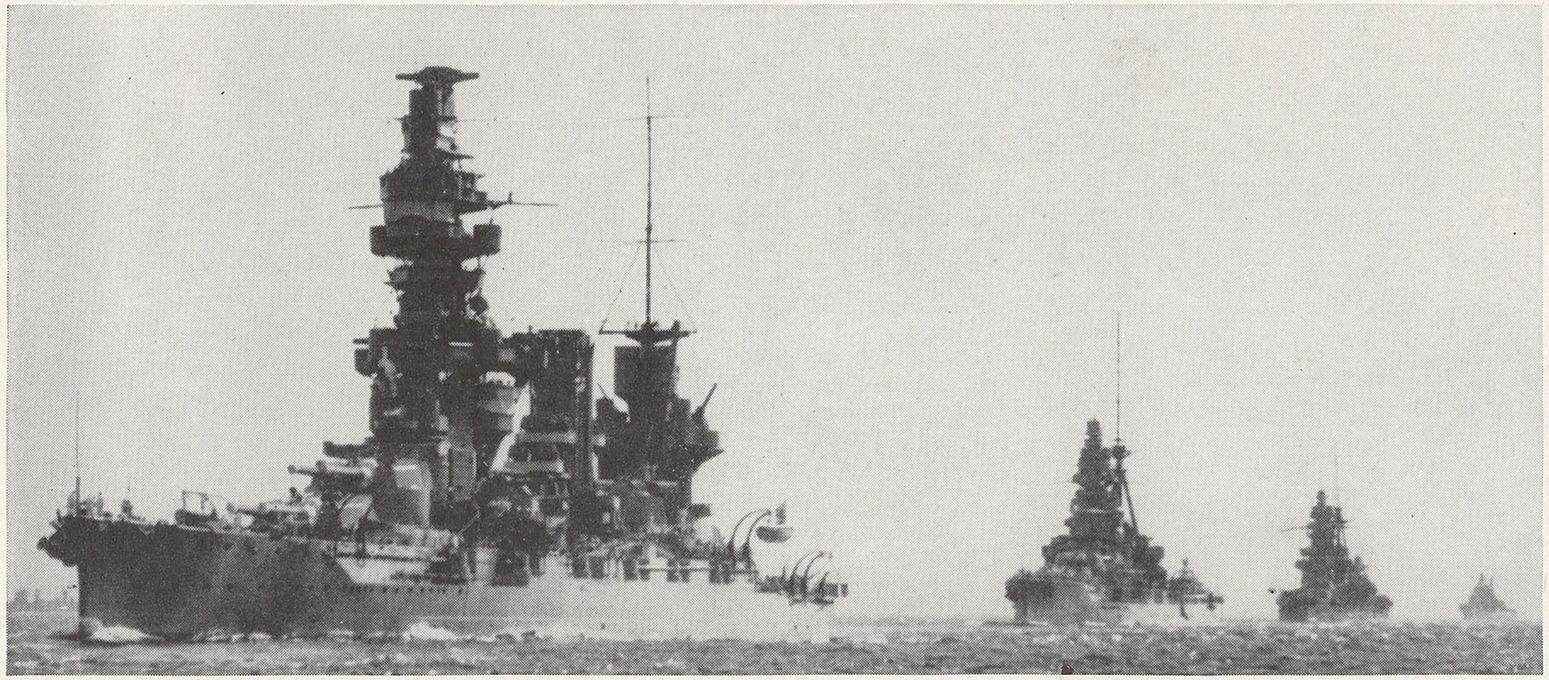
	BEGUN	COMPLETED
FUSO —BB 5	3/11/12	11/8/15
YAMASHIRO—BB 6		

MODERNIZED 1932-33
PROFILE MODIFIED

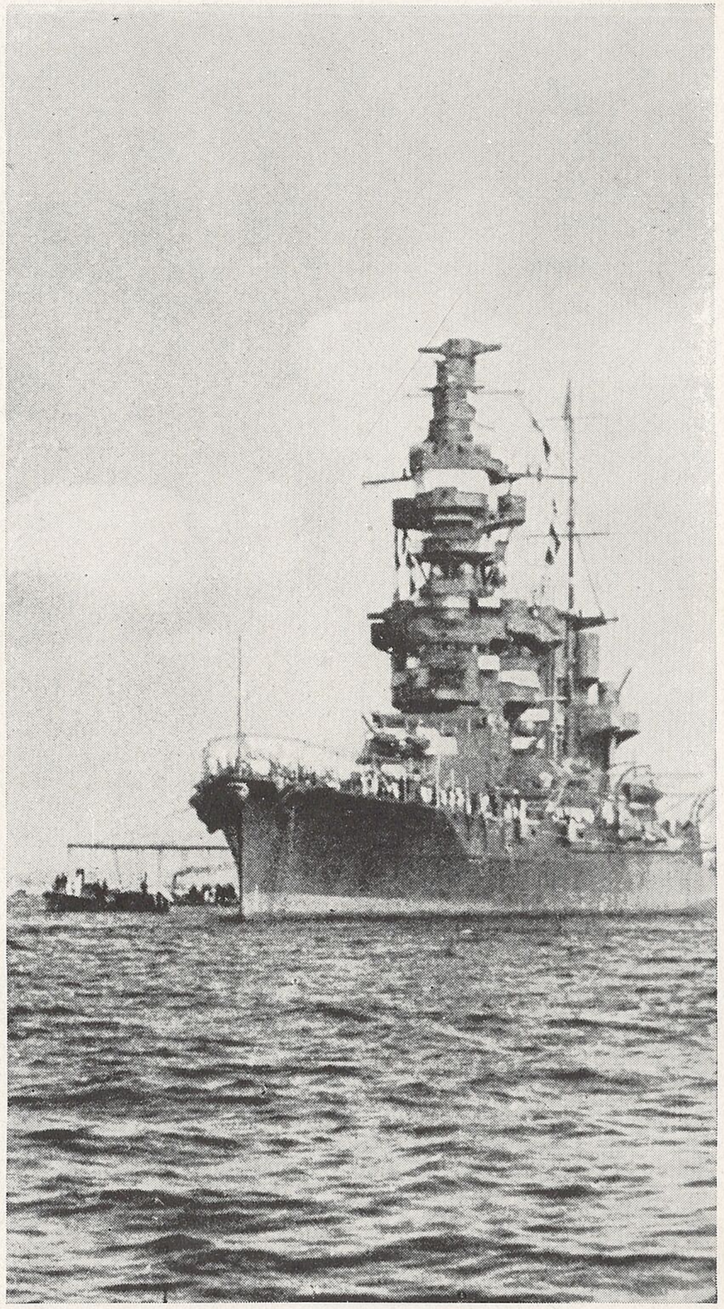
ONI 41-42
RESTRICTED



↑ 1935



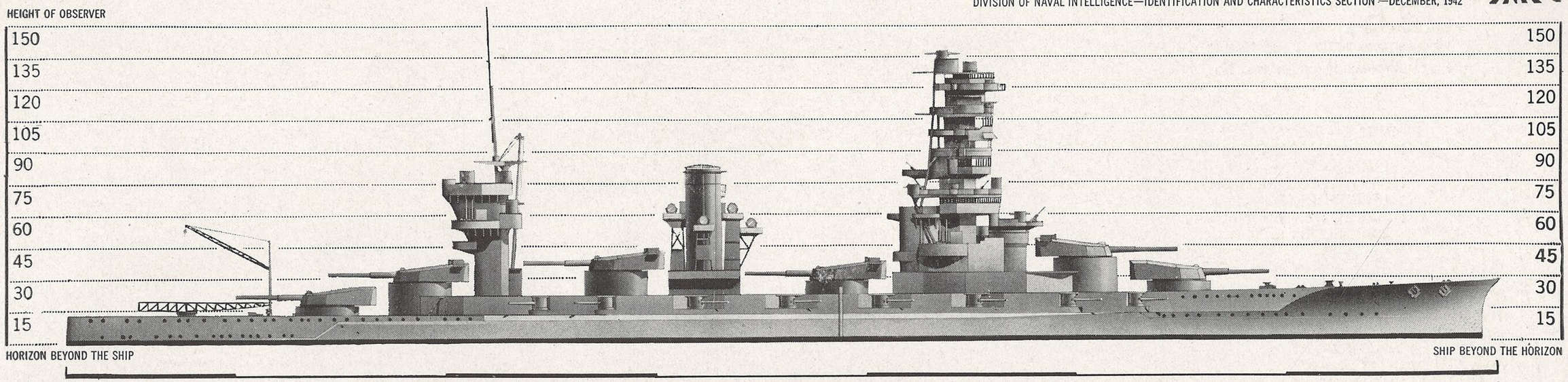
↓ FUSO LEADING UNITS OF THE KONGO CLASS



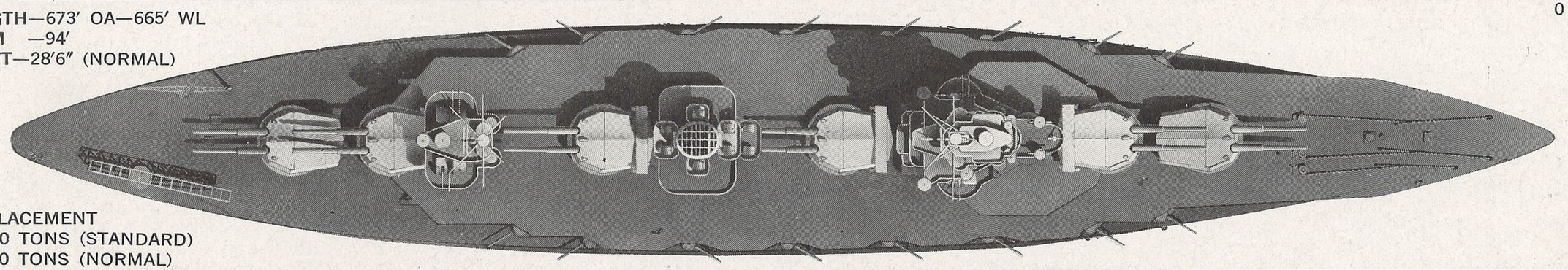
ONI 41-42 RESTRICTED

YAMASHIRO—BB 6

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—DECEMBER, 1942

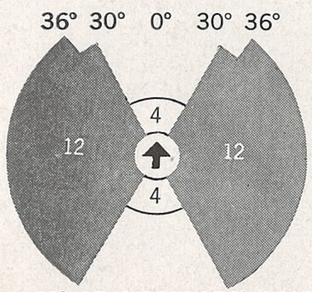


LENGTH—673′ OA—665′ WL
BEAM —94′
DRAFT—28′6″ (NORMAL)



DISPLACEMENT
29,330 TONS (STANDARD)
30,600 TONS (NORMAL)

DENSITY OF FIRE
MAIN BATTERY



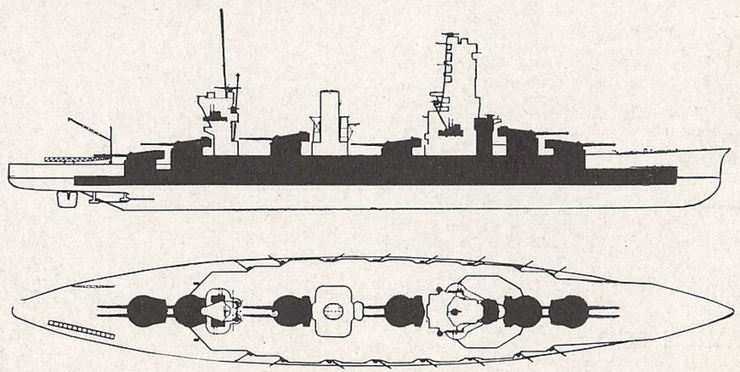
ARMAMENT

	MAX. ELEV.	RANGE
12–14″ (45) TWIN TURRETS	30°	30,000 YD.
16–6″ (50) CASEMATES	25°	19,000 YD.
8–5″ AA TWIN MOUNTS	85°	18,000 YD.

1 CATAPULT; 3 SCOUT OBSERVATION

PROTECTION

BELT— 8—12″ ENDS 4–5″
TURRETS— 8—12″
BARBETTES— 8—12″
CONNING TOWER—6—12″
DECK— 2″ 7″ OVER VITALS



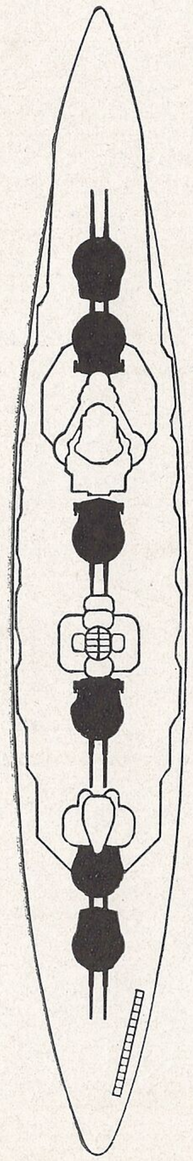
FUSO CLASS

FUSO (HUSO) BB 5

YAMASHIRO (YAMASIRO) BB 6

YAMASHIRO
BB 6

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JANUARY, 1943



PROFILE—
HIGH, SQUARE PAGODA FOREMAST
HEAVY STACK SEARCHLIGHT PLATFORM
HIGH TOWER MAINMAST, TOPPED BY STICK

→

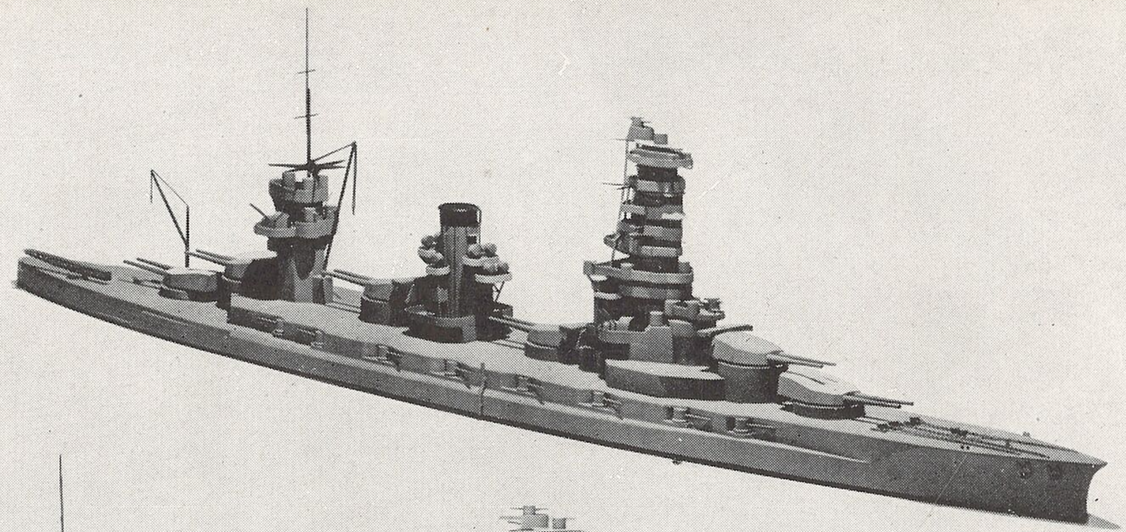
AERIAL—
TURRETS:
SUPERIMPOSED TWINS FOR'D
SINGLE TWINS AMIDSHIPS (TRAINED AFT)
SUPERIMPOSED TWINS AFT
CATAPULT AFT

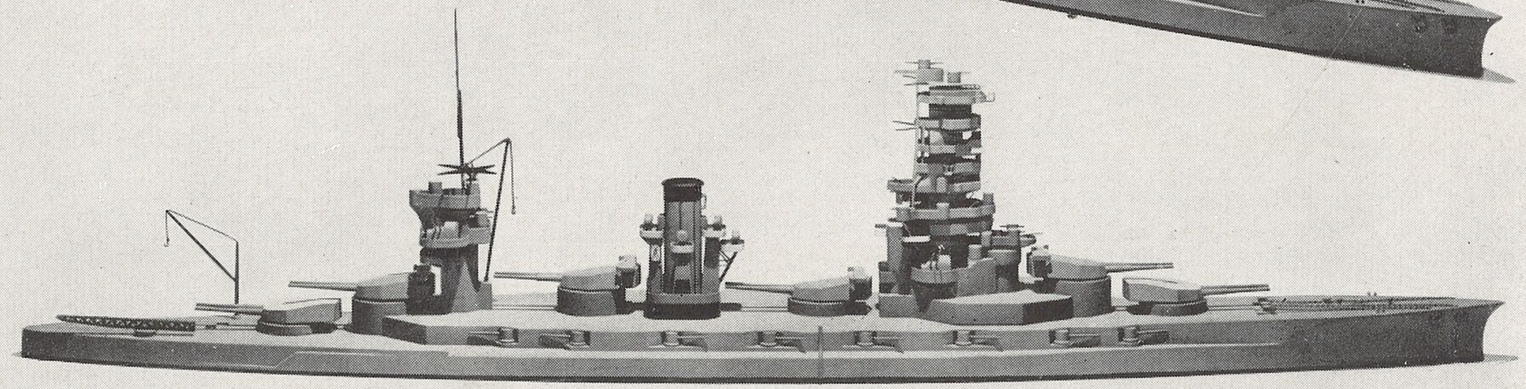
←

↑

END-ON—
EASILY MISTAKEN FOR FUSO

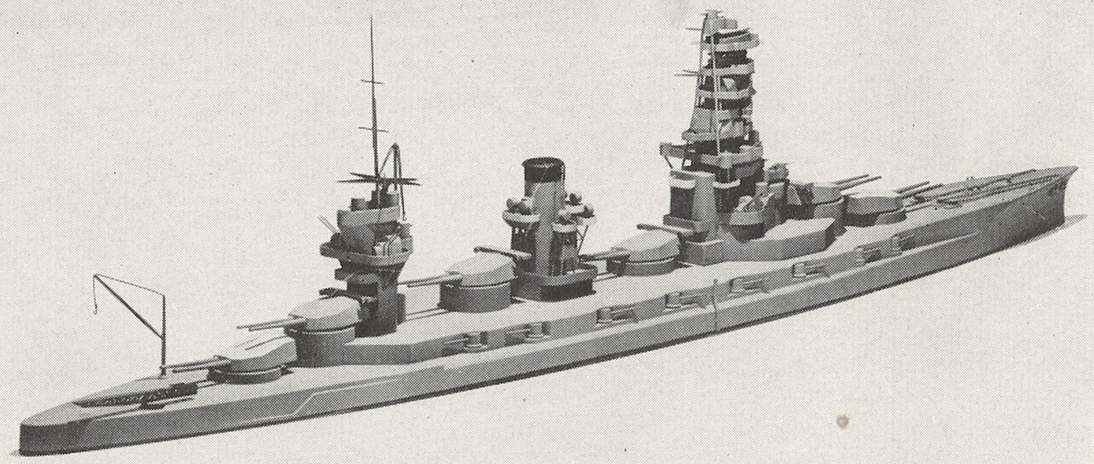
45°



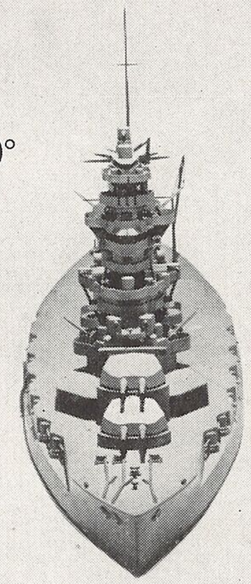


90°

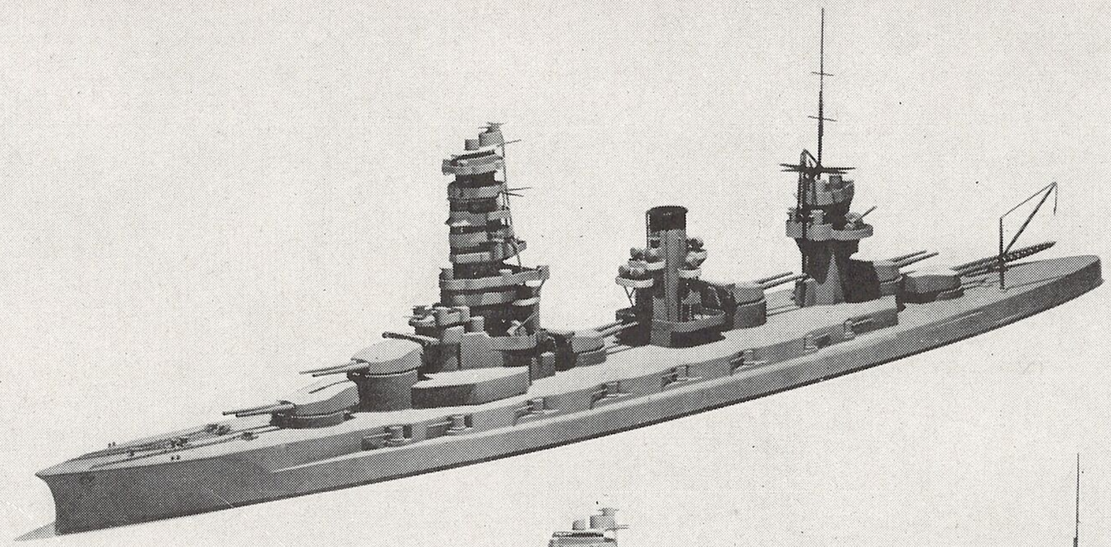
135°

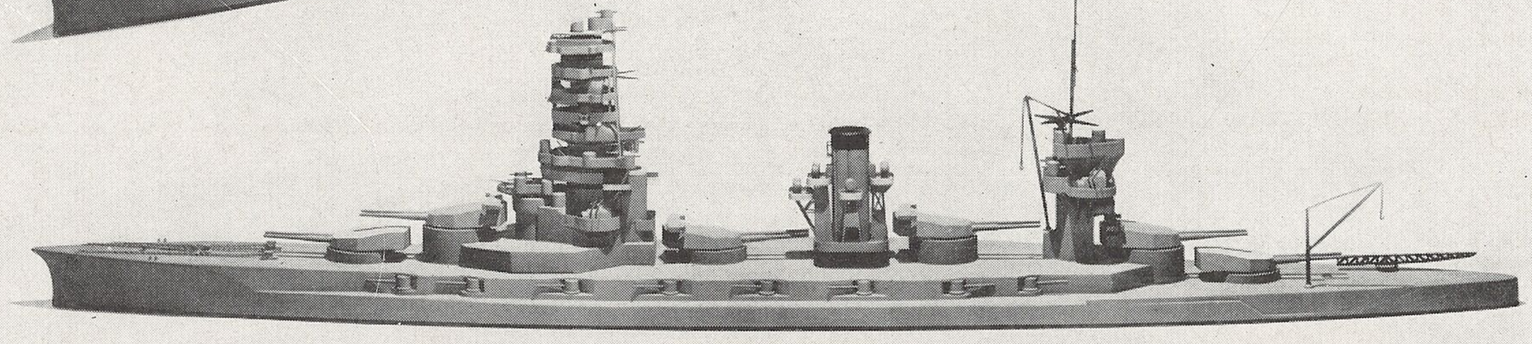


0°

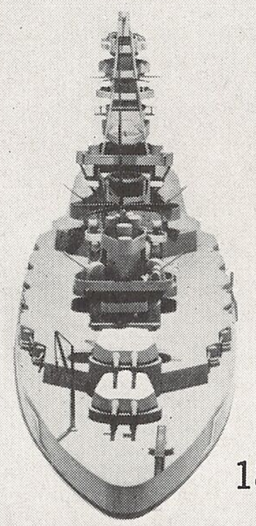


315°





270°



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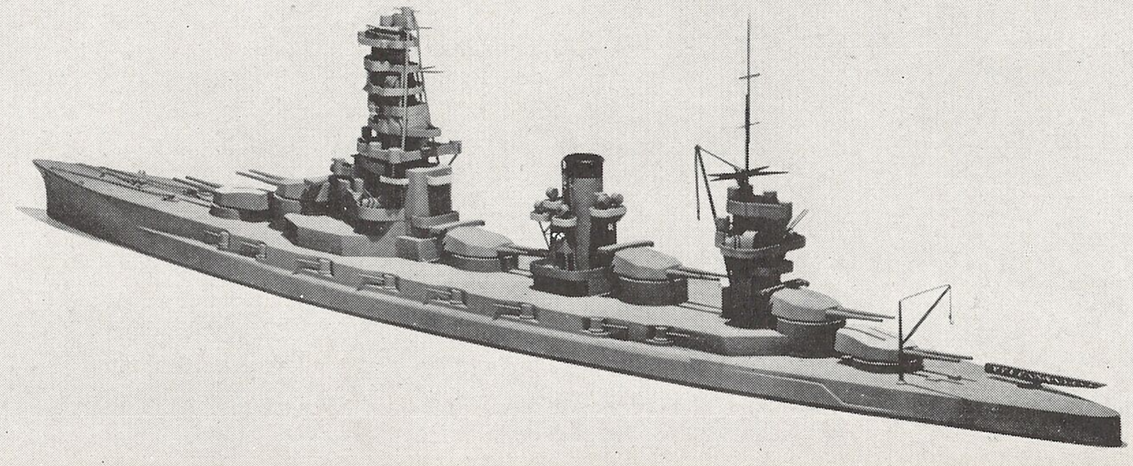


225°

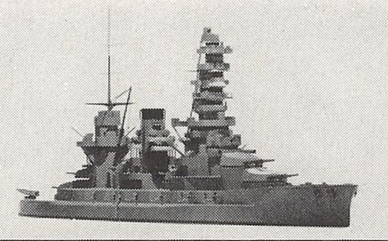
YAMASHIRO—BB6

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JANUARY, 1943

0°

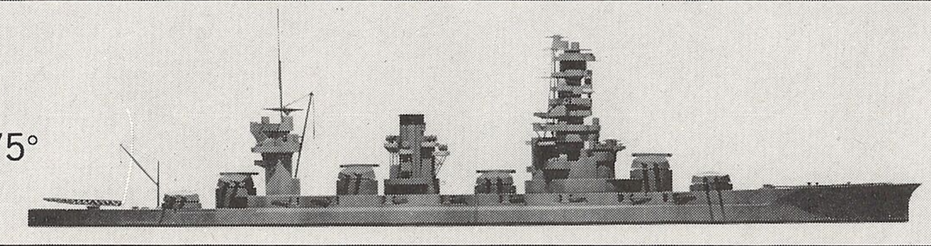
10°

20°



30°

75°



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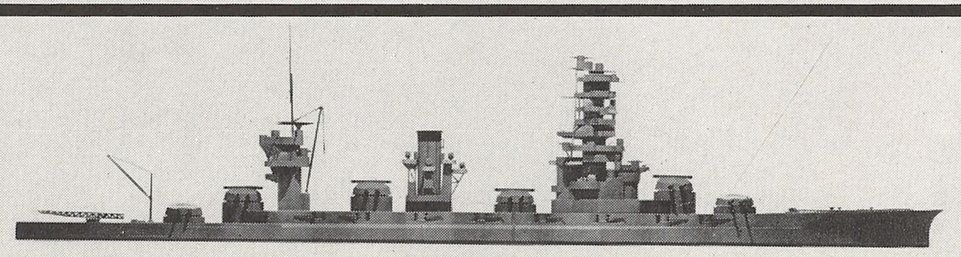
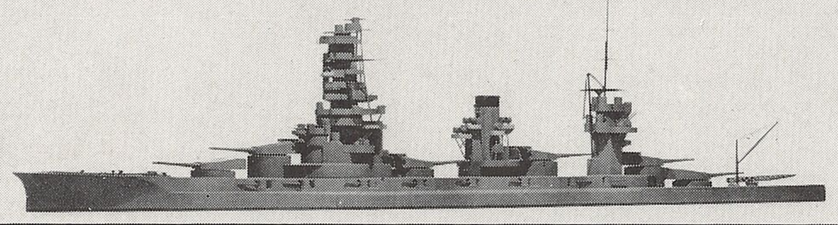
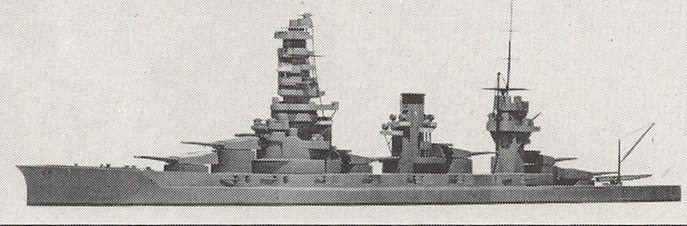


240°



255°



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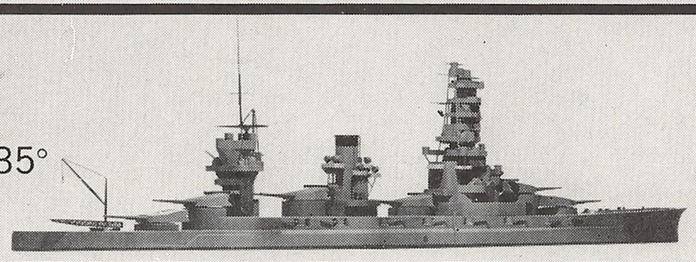
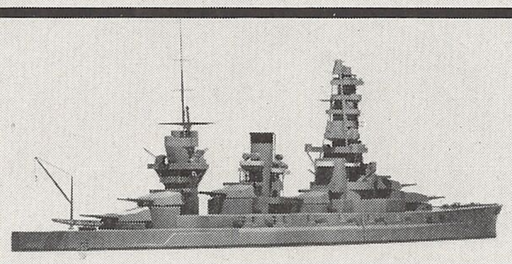


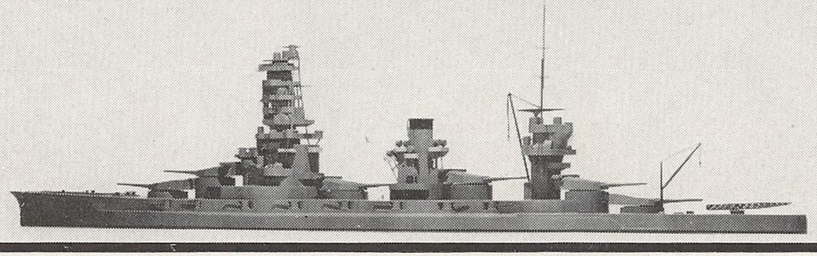
150°



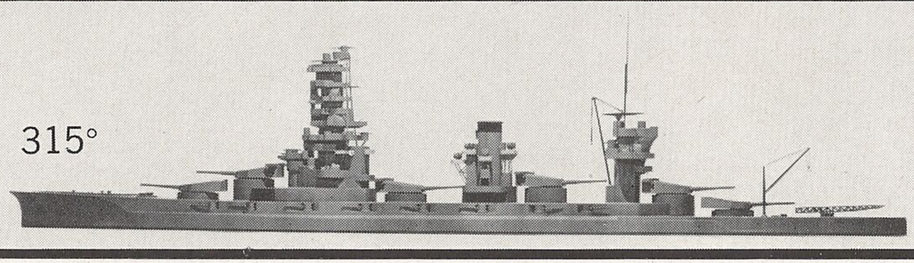
165°

180°

300°



315°



ONI 41-42

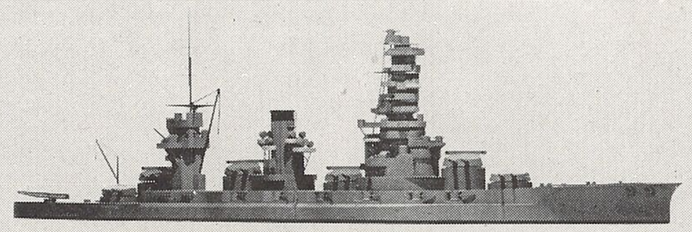
KNOTS	RPM
	400
	375
	350
	325

KNOTS	RPM
	300
23	292
	275
	250

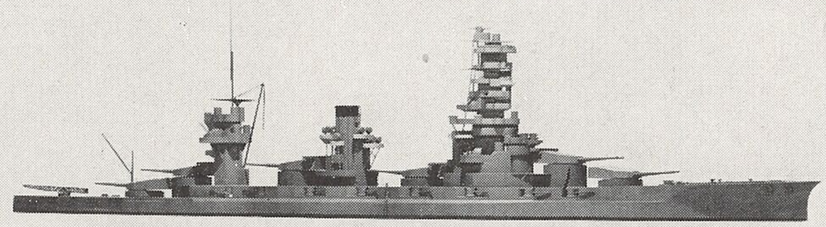
KNOTS	RPM
	225
	200
	175
	150

KNOTS	RPM
	125
	100
	75
	50

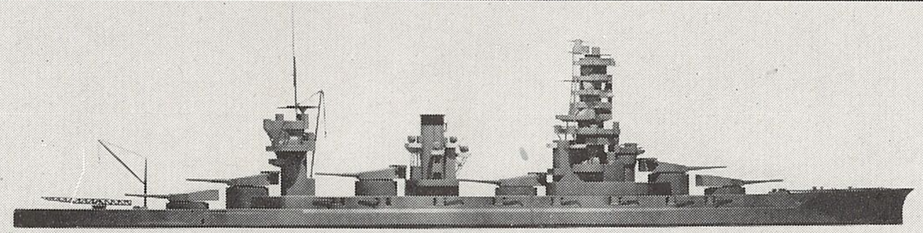
45°



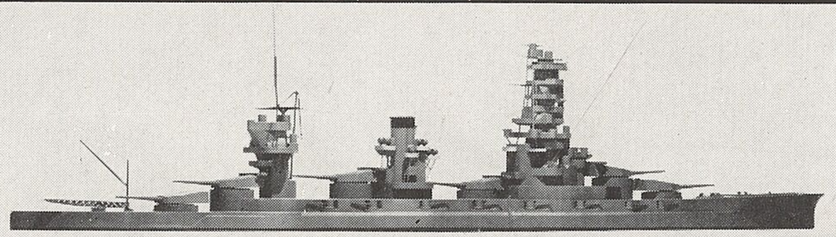
60°



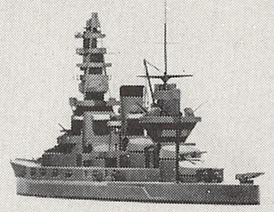
105°



120°

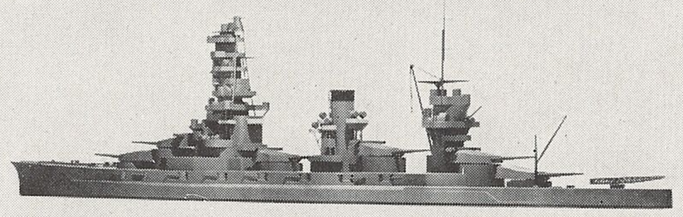


195°

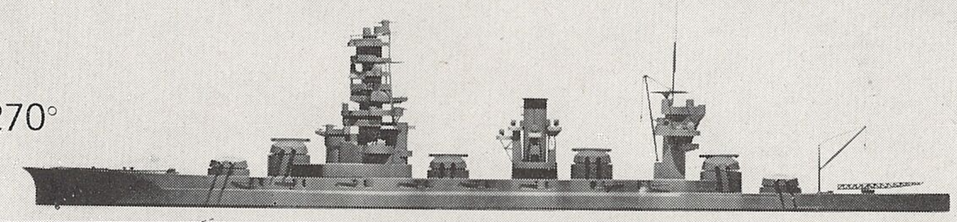


210°

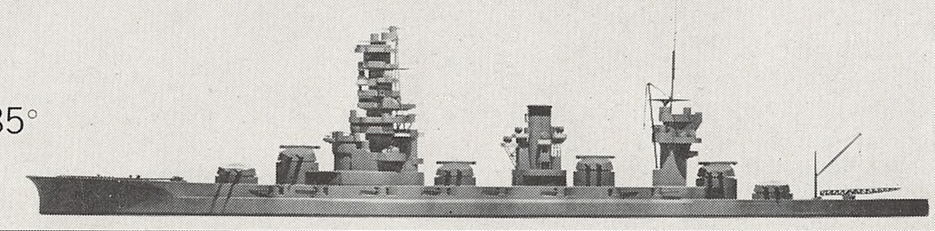
225°



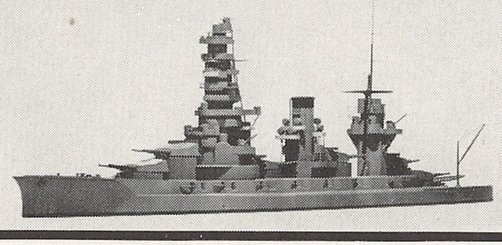
270°



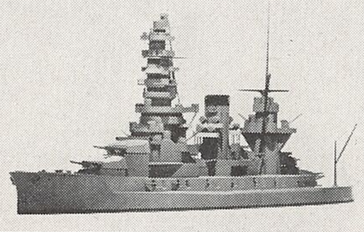
285°



330°



340°



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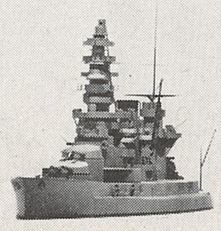


355°

YAMASHIRO—BB 6

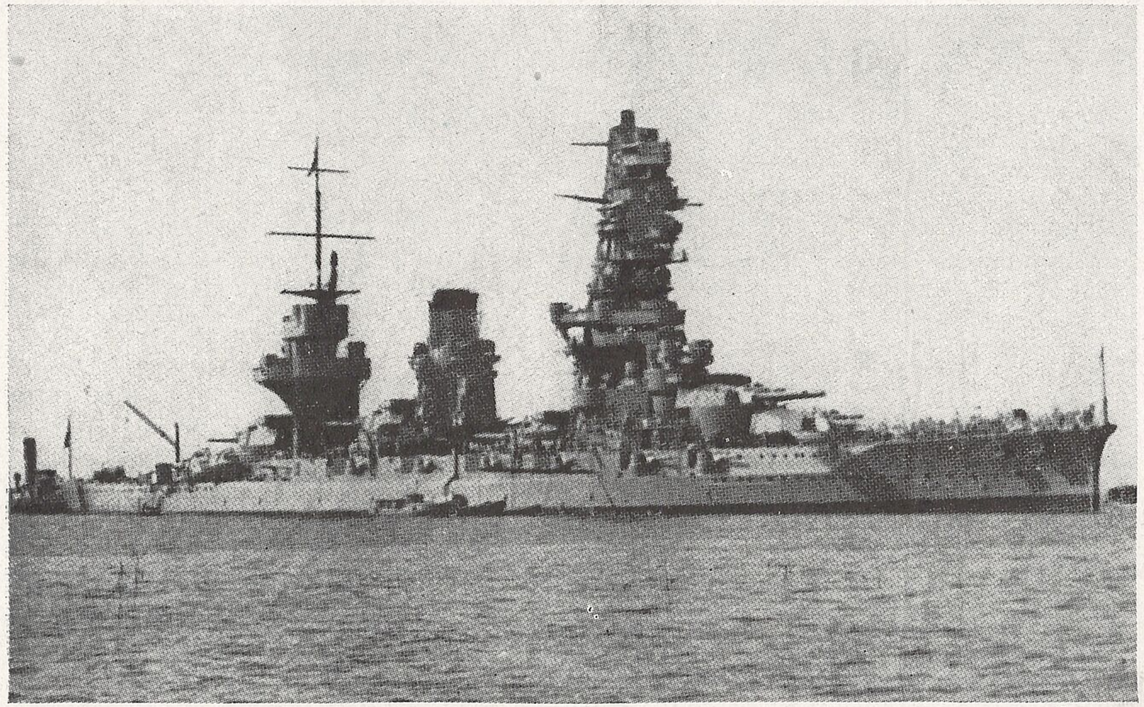
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—DECEMBER, 1942

	BEGUN	COMPLETED	
YAMASHIRO—BB 6	11/20/13	3/31/17	MODERNIZED 1932–33

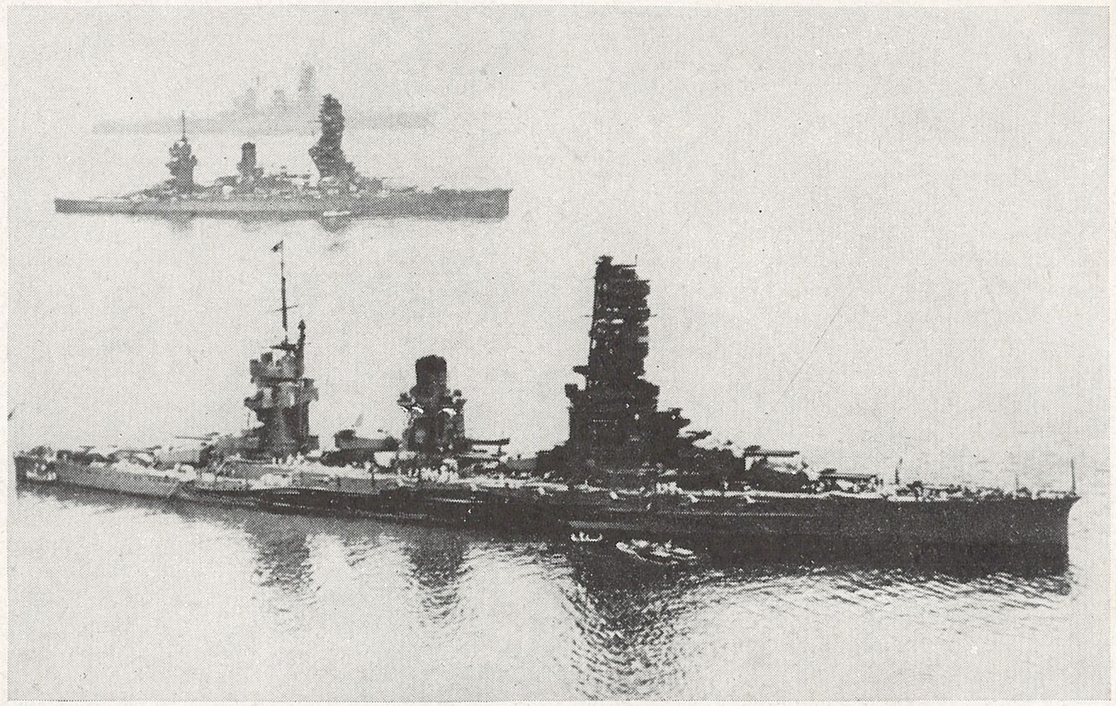
SISTERSHIP FUSO, BB 5, HAS MODIFIED PROFILE

ONI 41-42

RESTRICTED

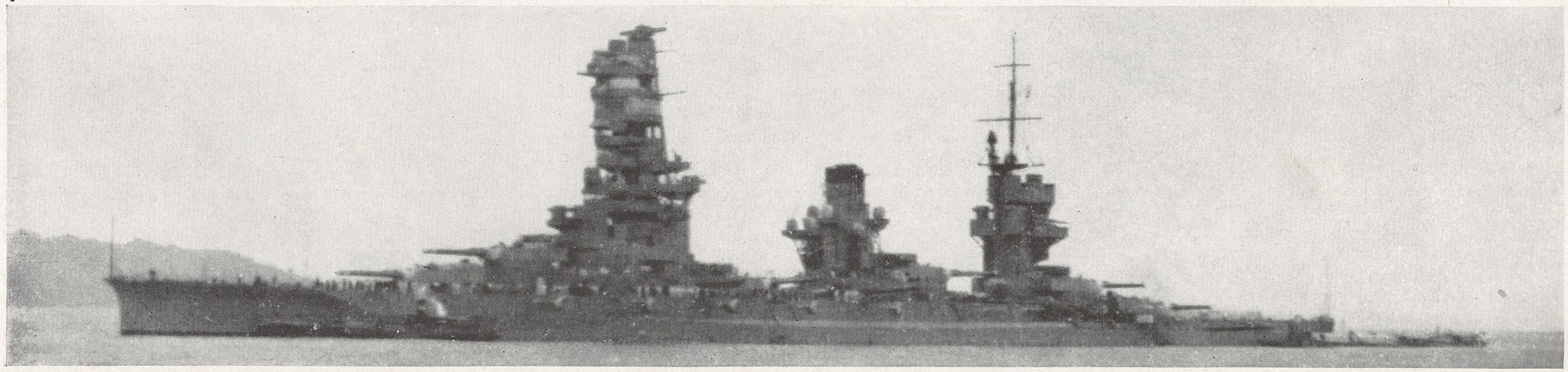


↑ 1939



↓ 1938

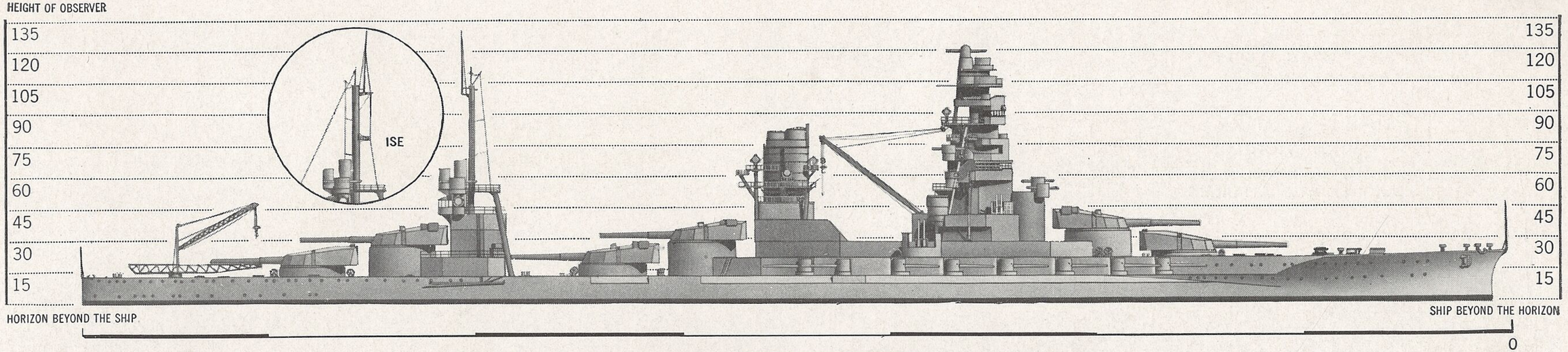
↑ YAMASHIRO, 1938. FUSO BEHIND, KONGO CLASS BEYOND



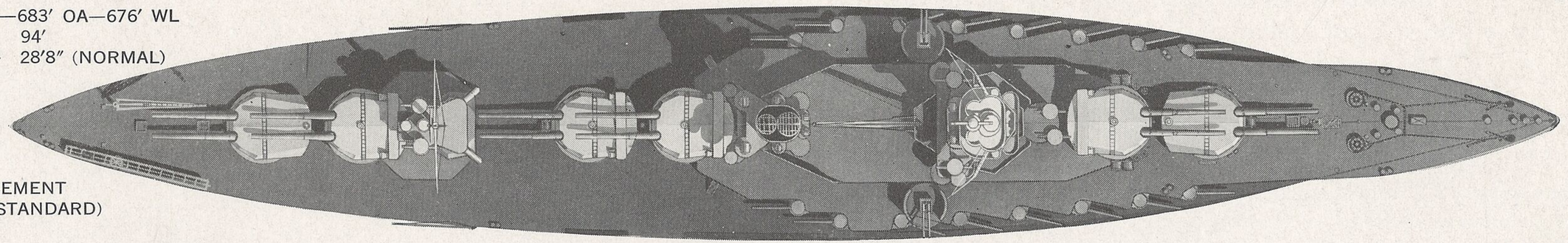
ONI 41-42 RESTRICTED

ISE, HYUGA—BB 7, 8

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—OCTOBER, 1942

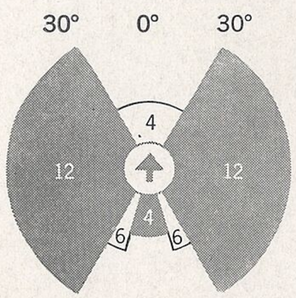


LENGTH—683′ OA—676′ WL
BEAM— 94′
DRAFT— 28′8″ (NORMAL)



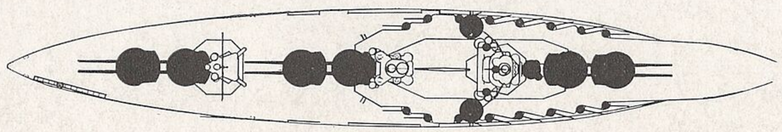
DISPLACEMENT
29,990 (STANDARD)

DENSITY OF FIRE
MAIN BATTERY



ARMAMENT

	MAX. ELEV.	RANGE
12–14″ (45) TWIN TURRETS	30°	30,000 YD.
16–5″.5 (50) CASEMATES	25°	19,000 YD.
8–5″ AA, 4–1″ AA TWIN MOUNTS	85°	18,000 YD.
1 CATAPULT, 3 SEAPLANE SCOUTS		

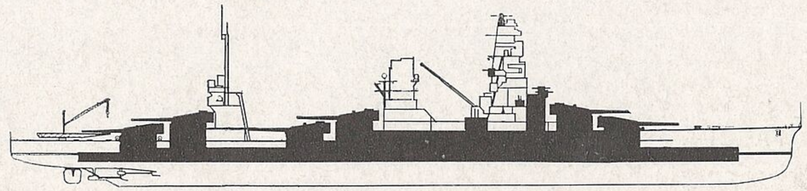


PROTECTION

BELT—	8″-12″
TURRETS—	8″-12″
BARBETTES—	8″
CONNING TOWER—	12″-6″
DECK—	6¾″-2½″

PROPULSION

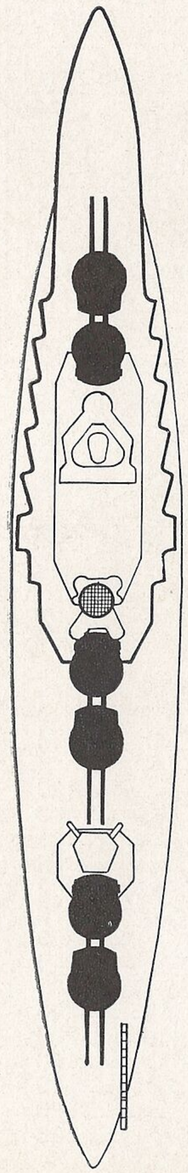
MACHINERY—	4 TURBINES
BOILERS—	8 KAMPON
FUEL—	OIL, 4,500 TONS
DES HP—	45,000
DES SPEED—	23 KNOTS
ENDURANCE—	4,200 @ 23 KNOTS 12,600 @ 12 KNOTS



KNOTS	RPM
	420
	400
	350
23	318
	300
	275
	250
	245
	240
	220
	200
	160
	150
	120
	80

ISE CLASS
BB 7-8

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —DECEMBER, 1942

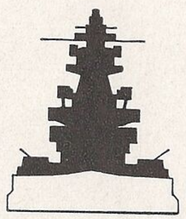


→

PROFILE—
PAGODA FOREMAST
POLE MAINMAST ON LOW TRIPOD
ONE SINGLE PIPE WITH SEARCHLIGHT PLATFORMS

←

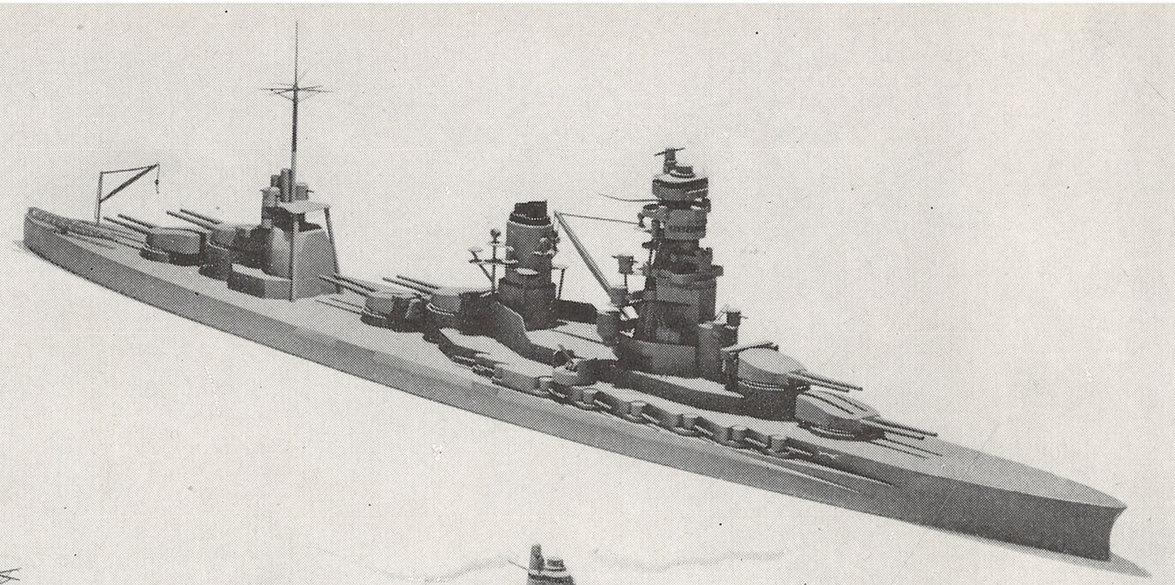
AERIAL—
TWIN TURRETS—
2 SUPERIMPOSED FOR'D
2 SUPERIMPOSED AMIDSHIPS
2 SUPERIMPOSED AFT
HULL BROKEN AMIDSHIPS

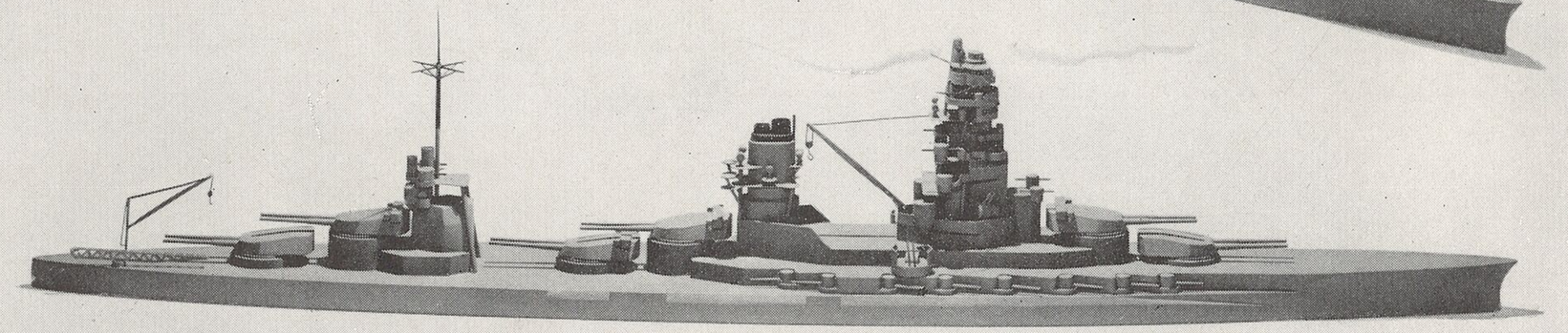


↑

END-ON—
FLARED PAGODA FOREMAST
FLANKING SECONDARY MOUNTS

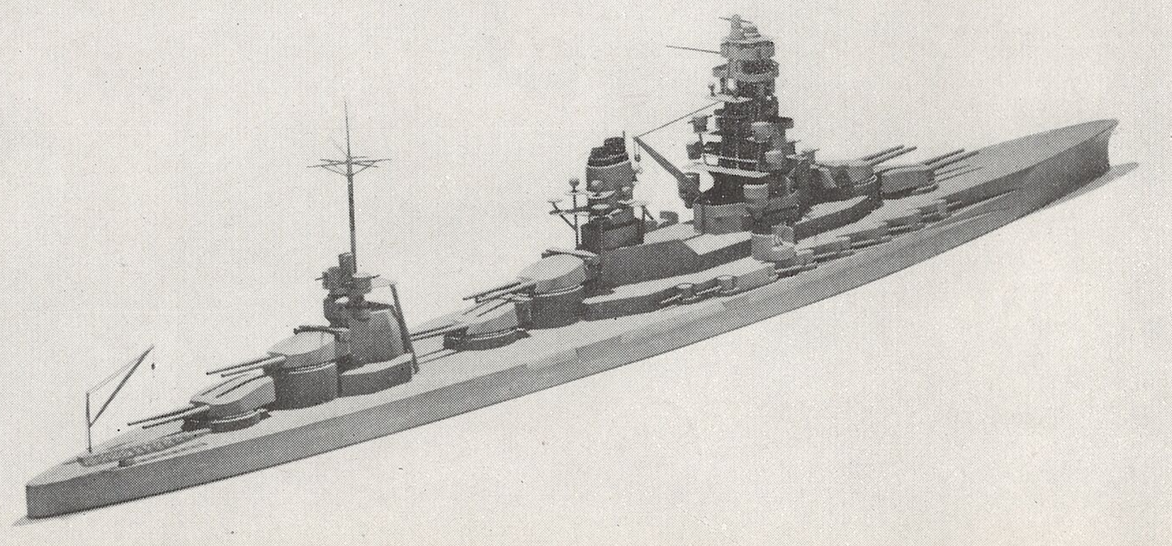
45°





90°

135°



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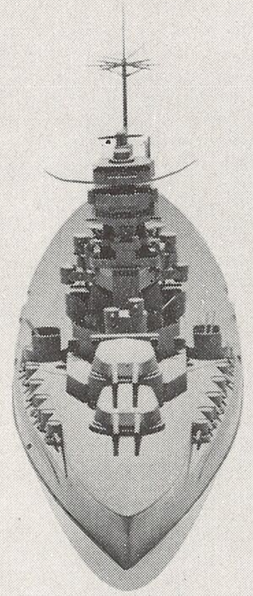

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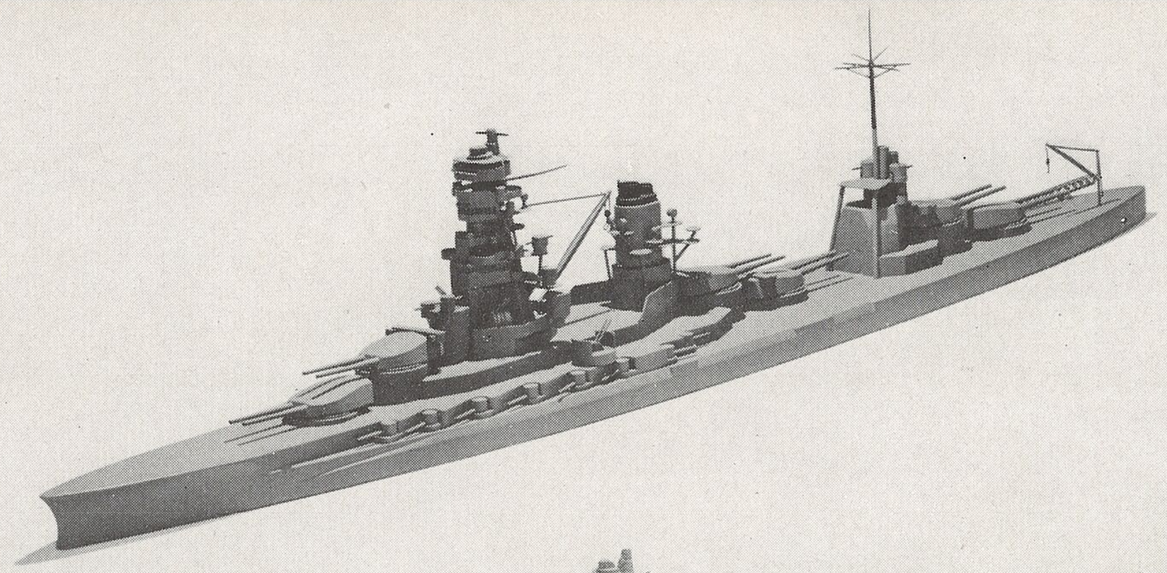

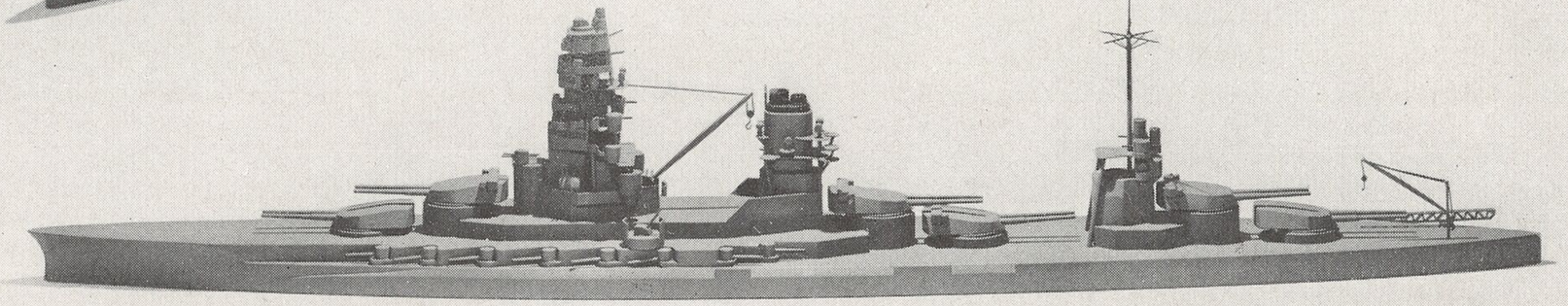

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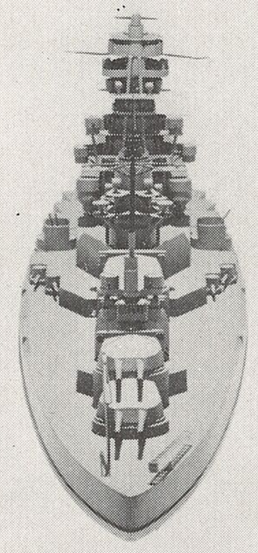

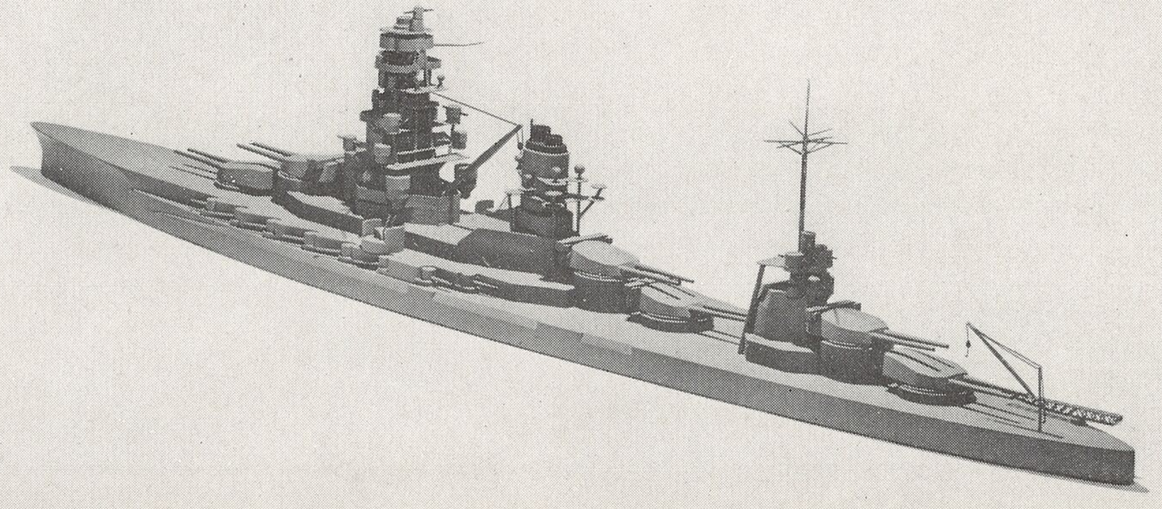

225°

ISE, HYUGA—BB 7, 8

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—NOVEMBER, 1942

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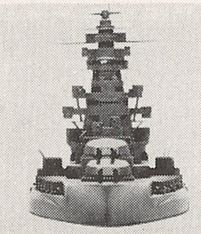

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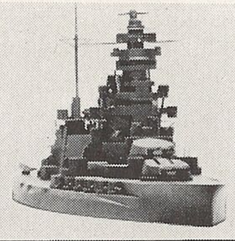

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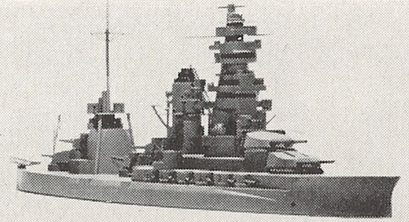

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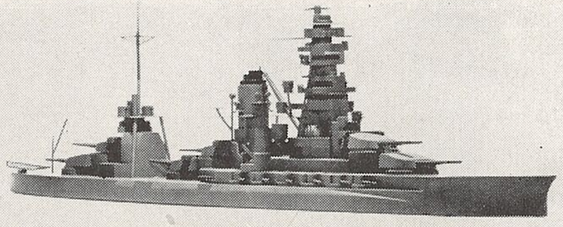

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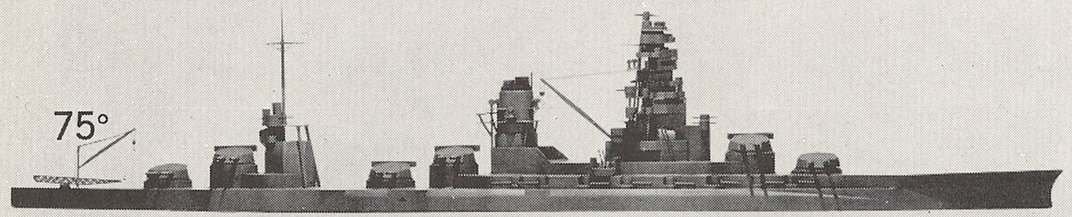

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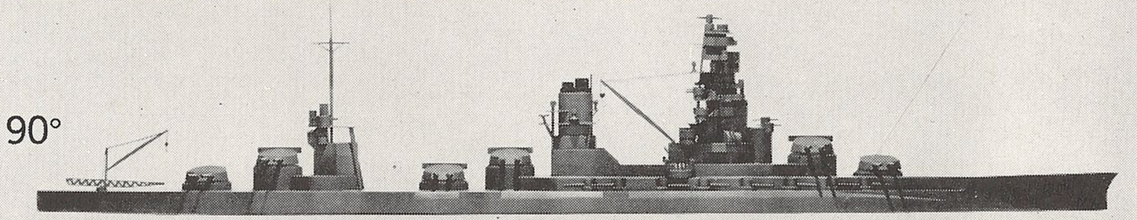

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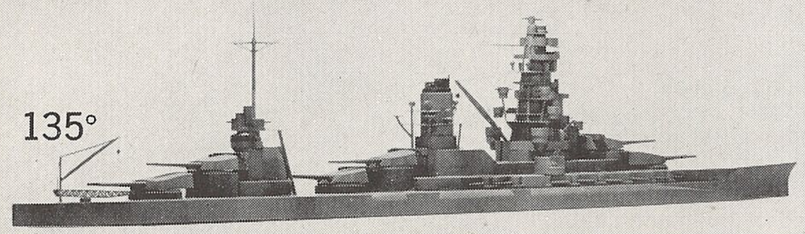

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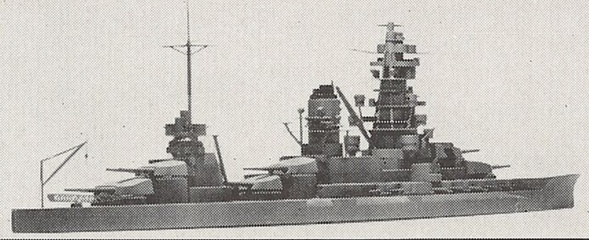

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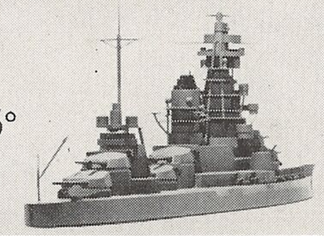

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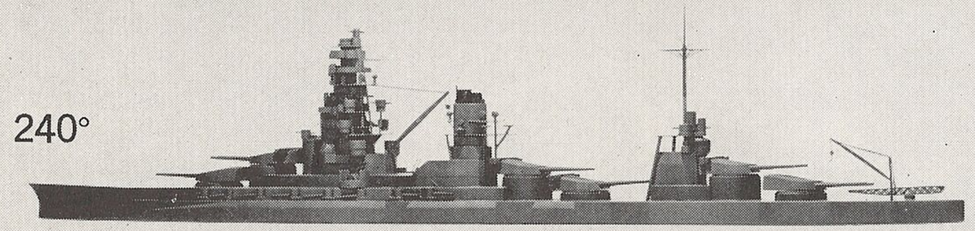

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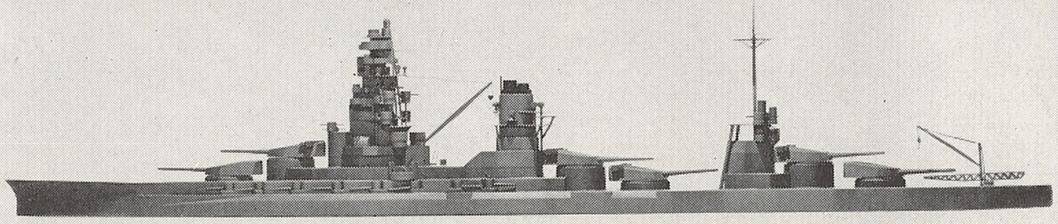

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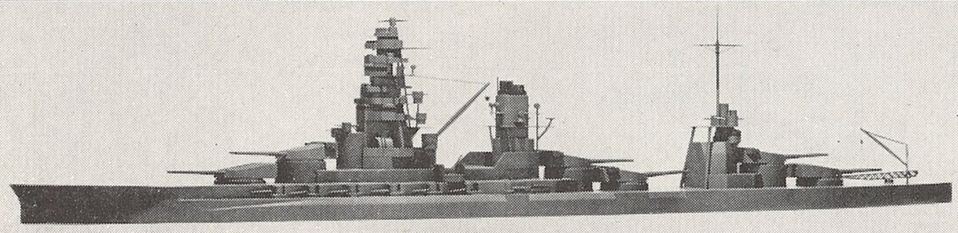

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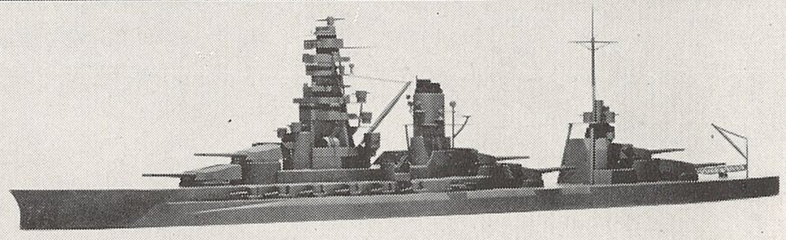

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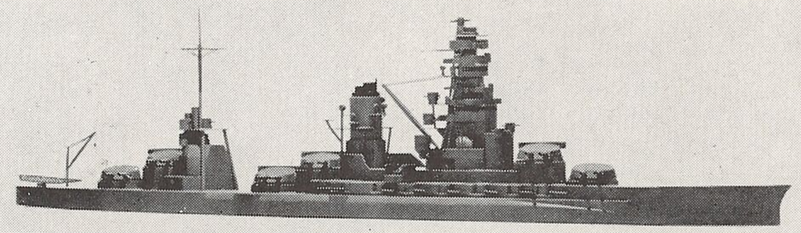

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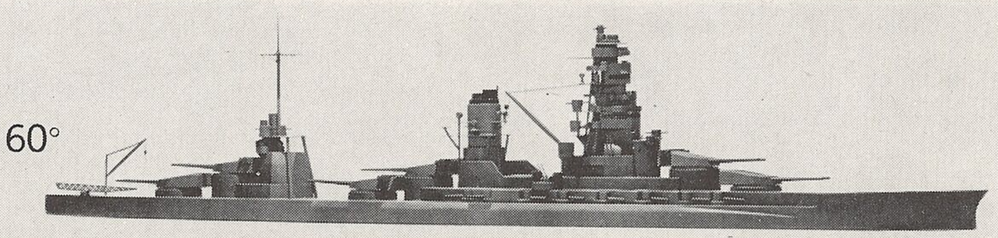

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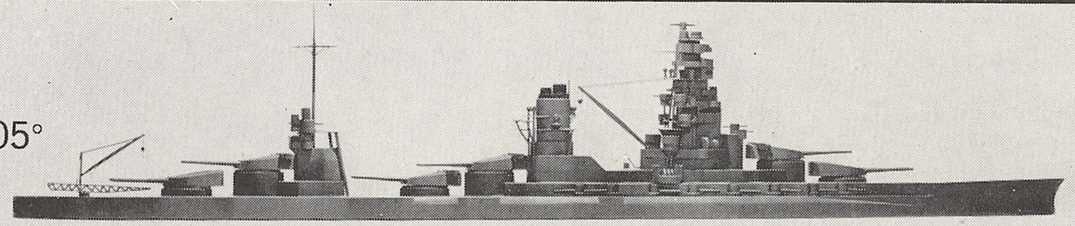

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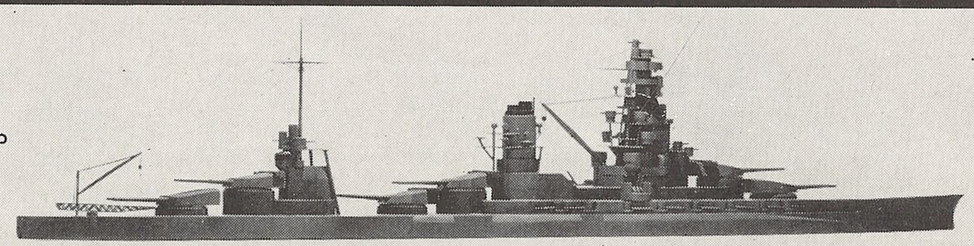

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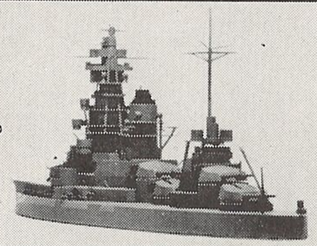

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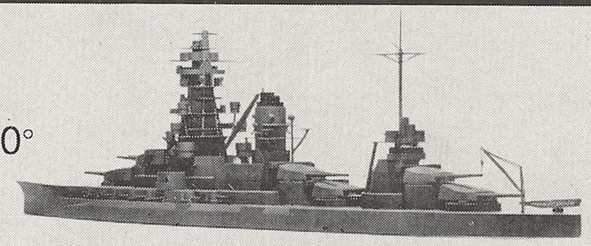

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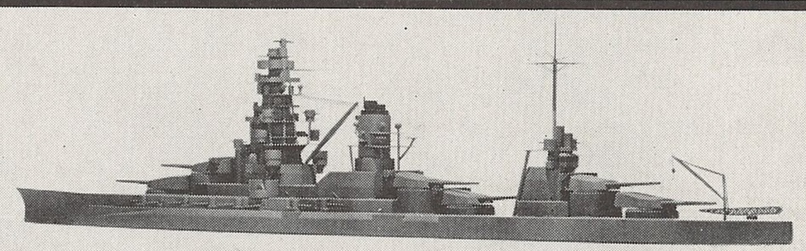

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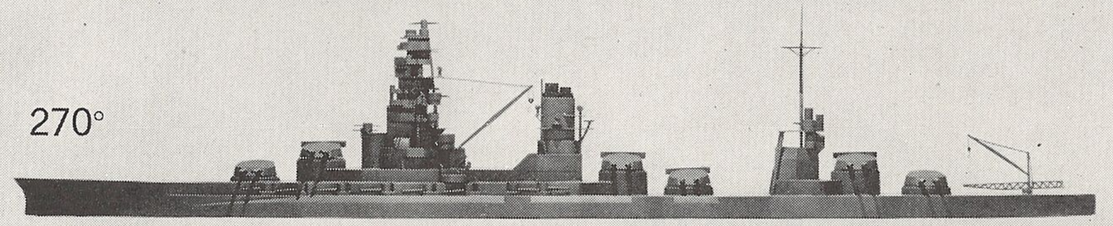

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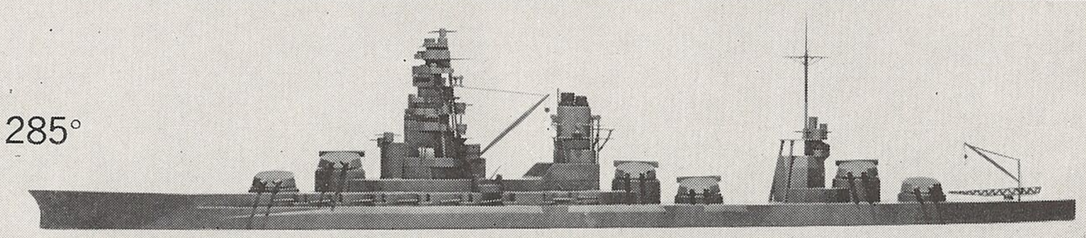

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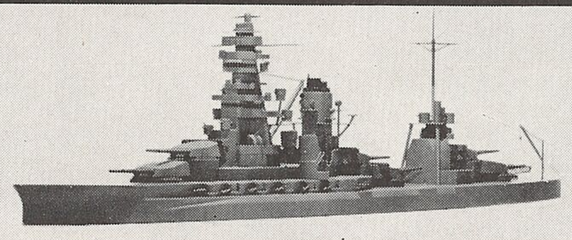

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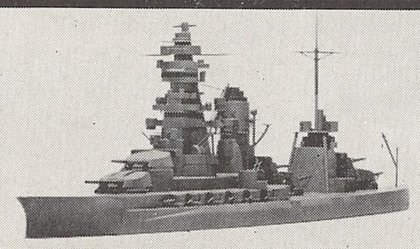


350°

355°

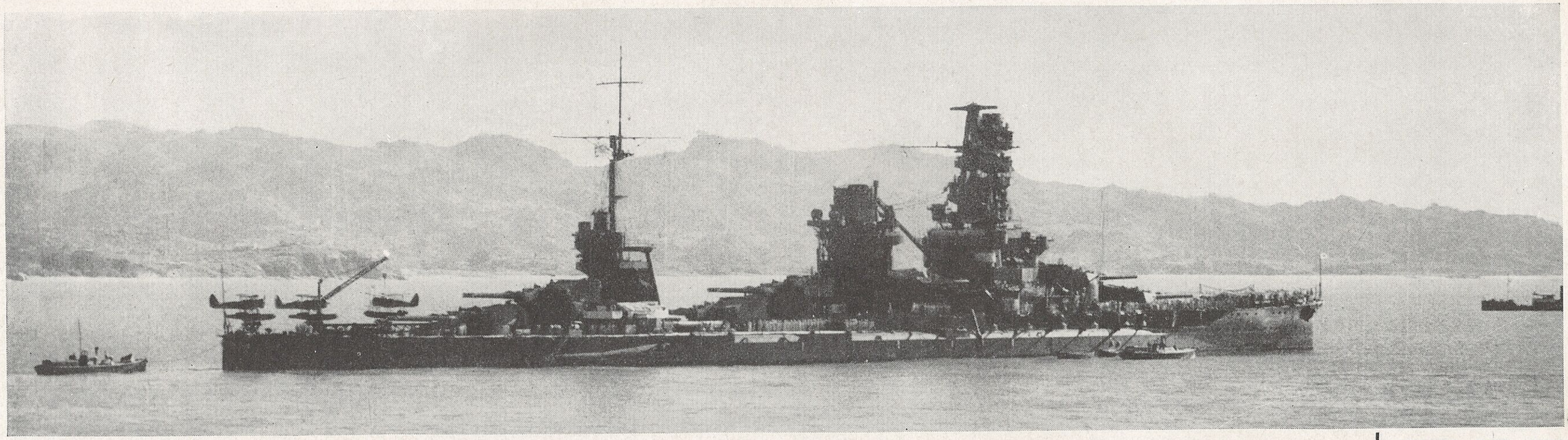
ISE, HYUGA—BB 7, 8

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—OCTOBER, 1942

	BEGUN	COMPLETED	MODERNIZED
ISE –BB 7	5/10/15	12/15/17	
HYUGA–BB 8	5/ 6/15	4/30/18	1935–37

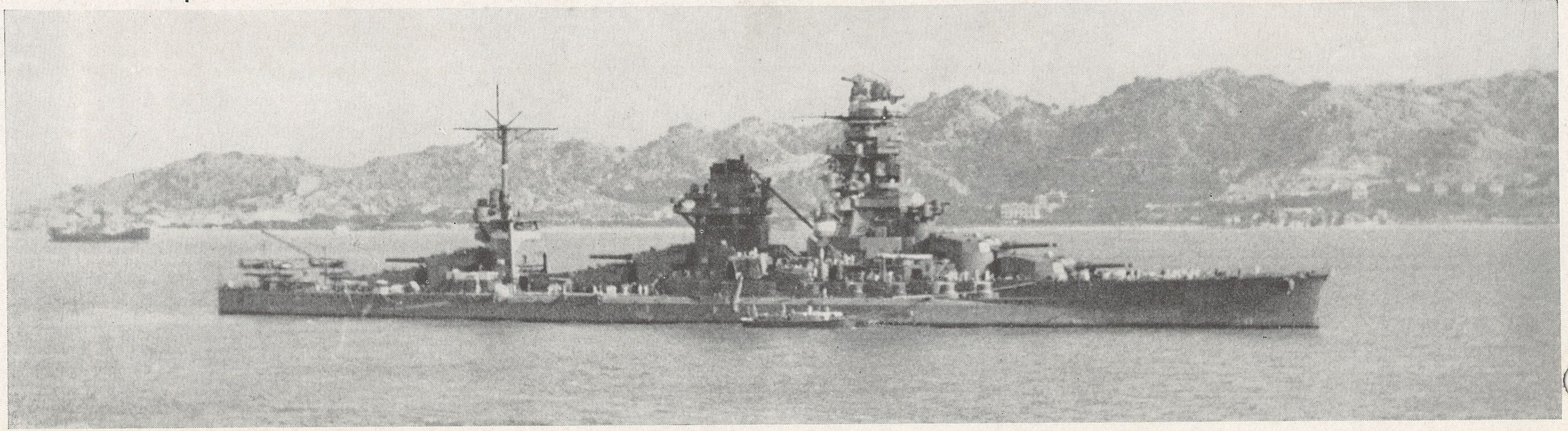
ONI 41-42

RESTRICTED



ISE—DEC. 19, 1938 ↑

↓ HYUGA—OCT., 1938



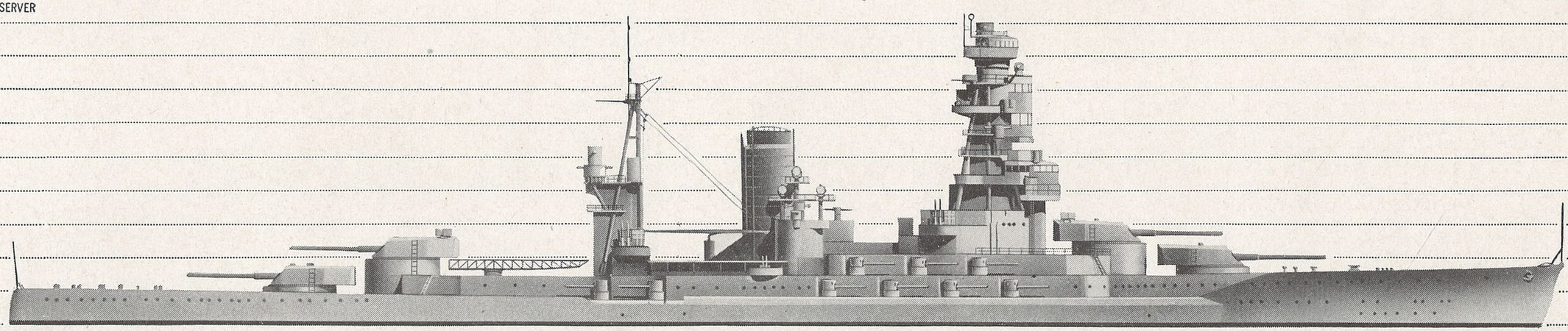
ONI 41-42 RESTRICTED

NAGATO CLASS—BB9-10

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —OCTOBER, 1942

HEIGHT OF OBSERVER

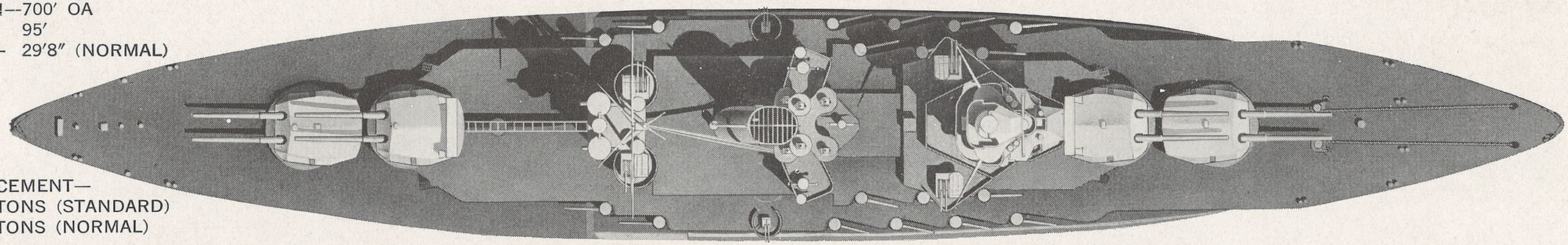
135 120 105 90 75 60 45 30 15



HORIZON BEYOND THE SHIP

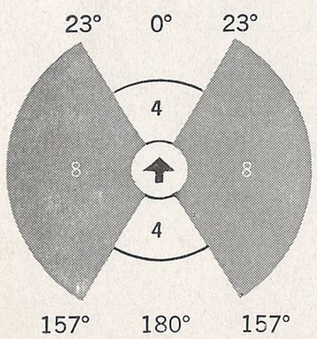
0

LENGTH—700′ OA
BEAM— 95′
DRAFT— 29′8″ (NORMAL)



DISPLACEMENT—
32,720 TONS (STANDARD)
33,800 TONS (NORMAL)

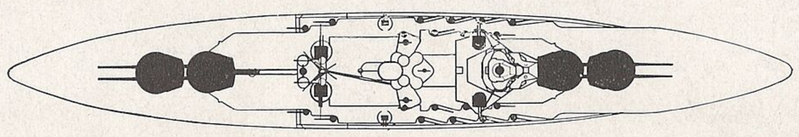
DENSITY OF FIRE
MAIN BATTERY



ARMAMENT

	MAX. ELEV.	RANGE
8-16″ (45) TWIN TURRETS	35°	36,000 YD.
18-5″5 (50) CASEMATES	25°	19,000 YD.
8–5″ AA TWIN SHIELD MOUNTS	85°	18,000 YD.

1 CATAPULT, 3 SEAPLANE SCOUTS

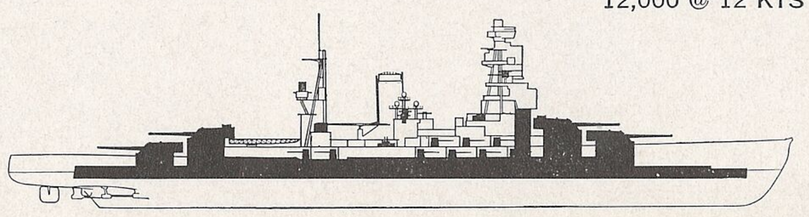


PROTECTION

BELT—	13″
TURRETS—	14″
BARBETTES—	
CONNING TOWER—	14″
DECK—(OVER VITALS)	3½″-7″

PROPULSION

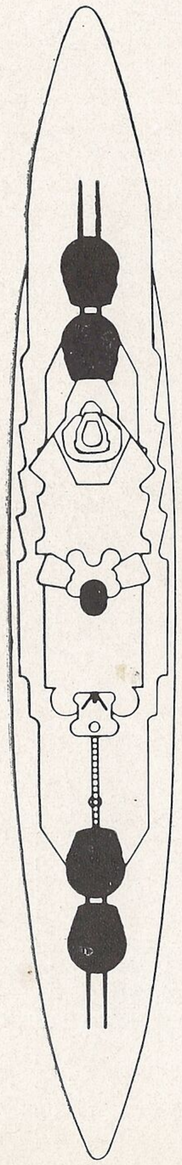
MACHINERY—	4 TURBINES
BOILERS—	21 KAMPON
FUEL—	OIL—5,000 TONS
DESIGNED HP—	80,000
DESIGNED SPEED—	26 KNOTS
ENDURANCE—	4700 @ 26 KTS 12,000 @ 12 KTS



KNOTS	RPM
	420
	400
	350
26	330
	300
	275
	250
	245
	240
	220
	200
	160
	150
	120
	80

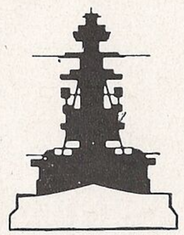
NAGATO CLASS BB 9-10

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —DECEMBER, 1942



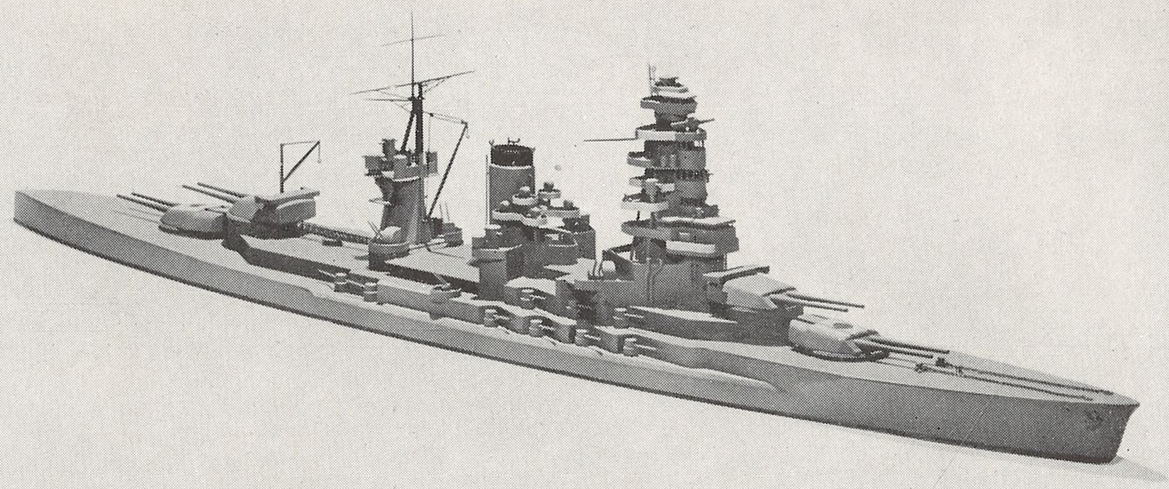
PROFILE— →
PAGODA FOREMAST
LARGE S. P. STACK
TRIPOD MAINMAST
ENCLOSING LOW TOWER

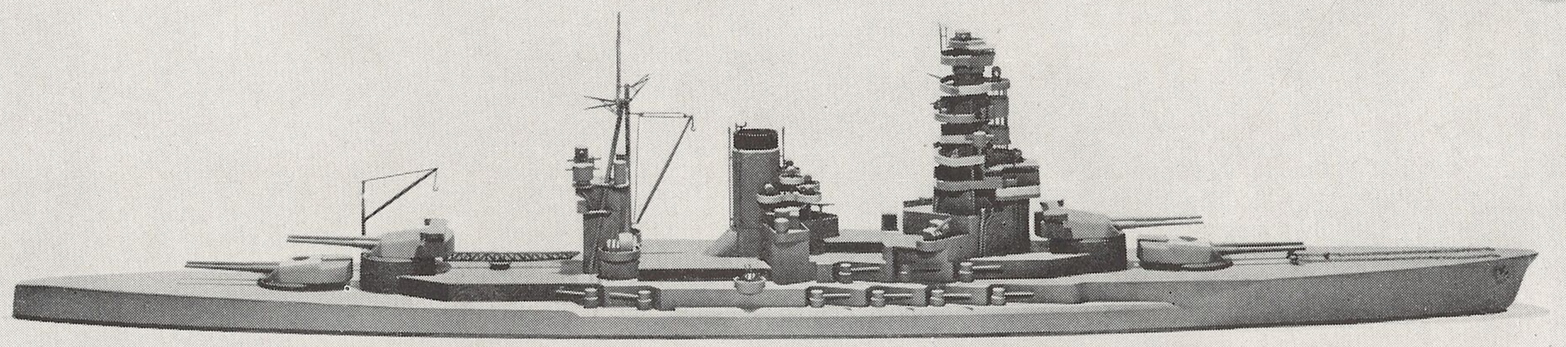
←
AERIAL—
TURRETS—
TWIN SUPERIMPOSED
FOR'D & AFT.
STACK SEARCHLIGHT
PLATFORMS
CATAPULT AFT OF
MAINMAST



↑
END-ON—
TRIPOD FRAMEWORK
FOR PAGODA FOREMAST
FREEBOARD BROKEN
BY BLISTER, CASEMATES

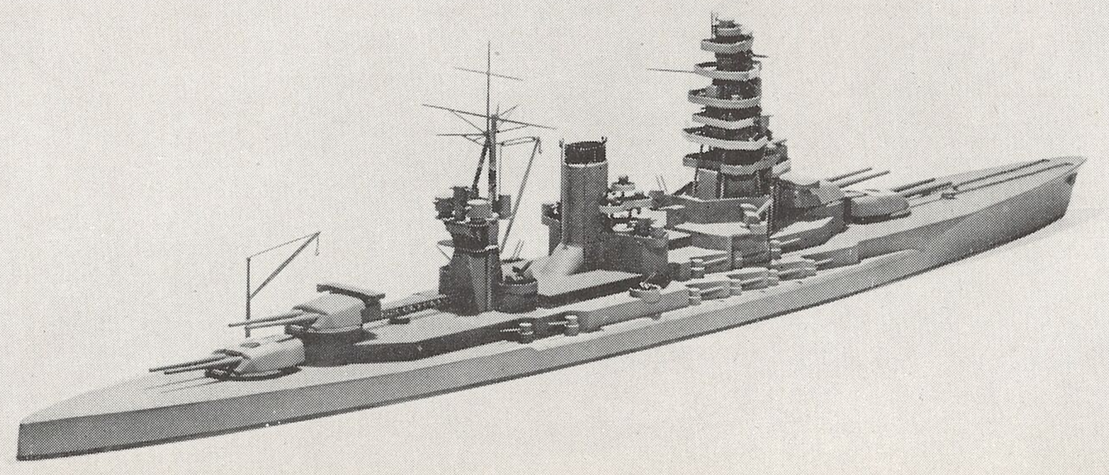
45°





90°

135°



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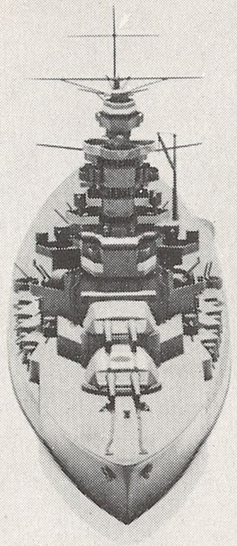
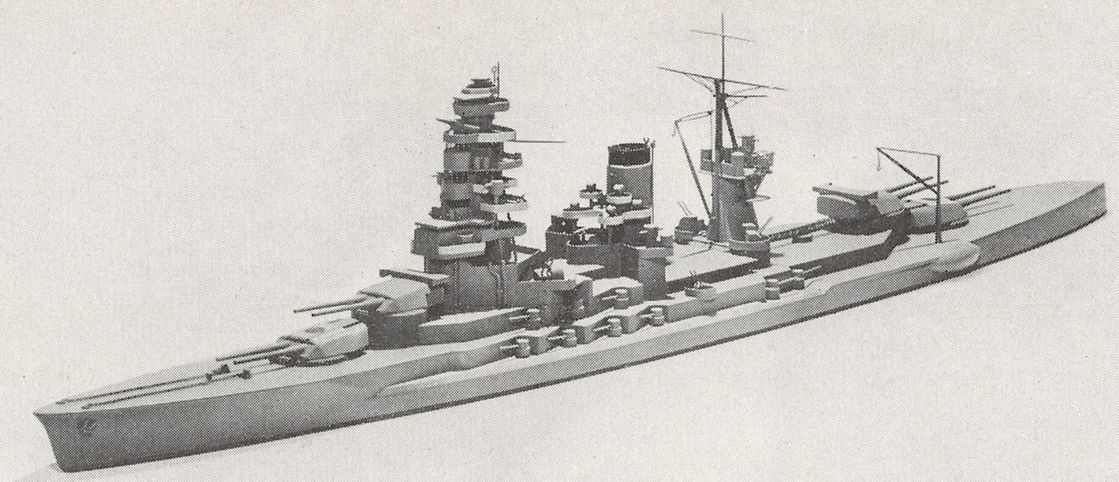
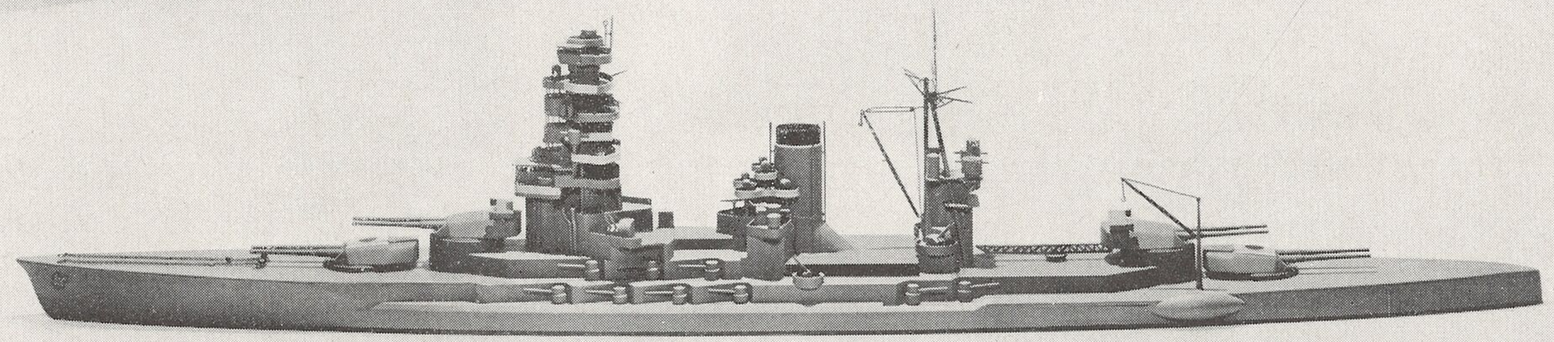
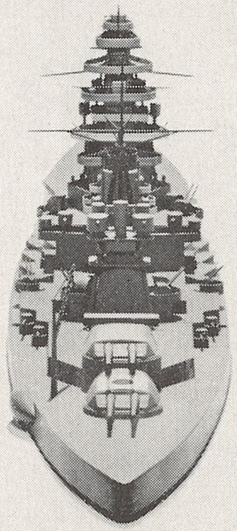


315°





270°



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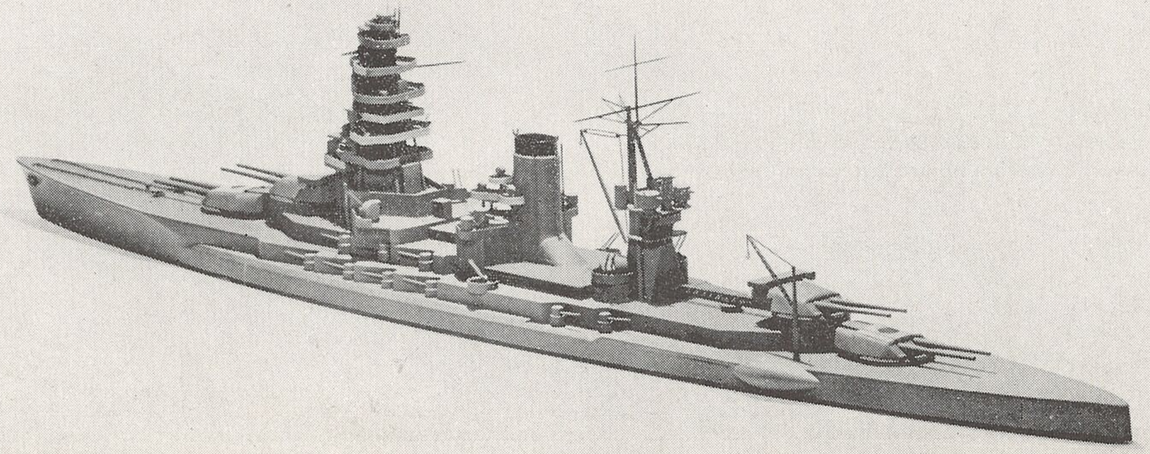


225°

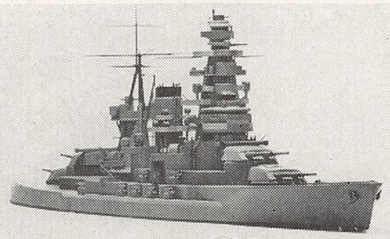
NAGATO CLASS—BB 9-10

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—DECEMBER, 1942

0°

10°

20°



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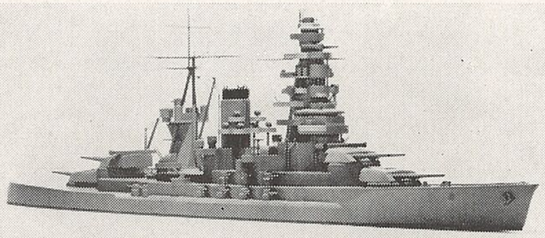
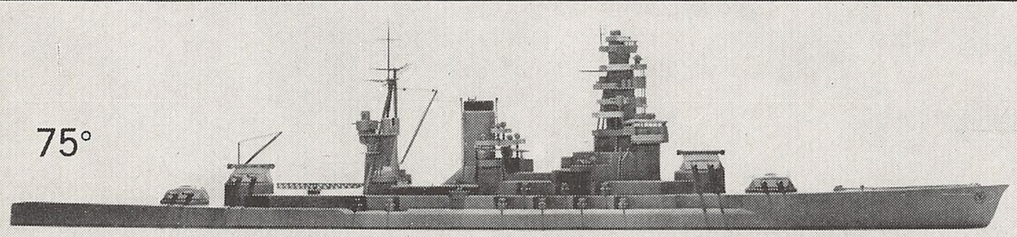
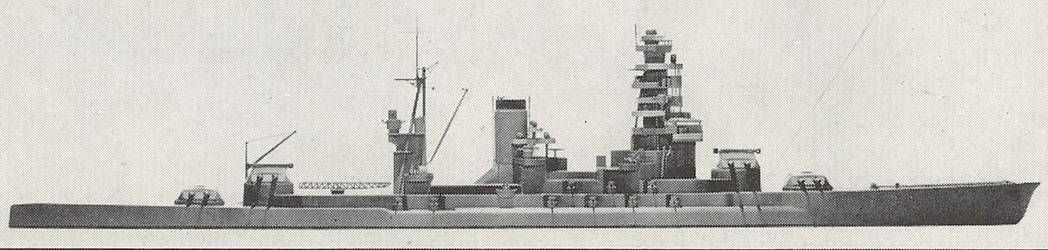


75°



90°



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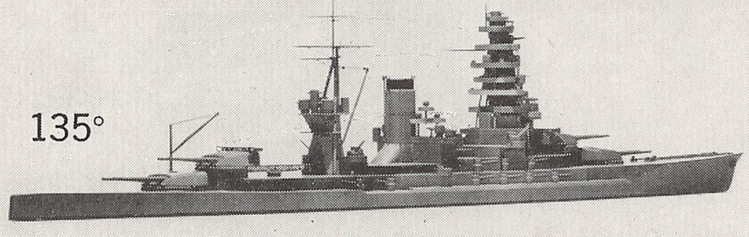

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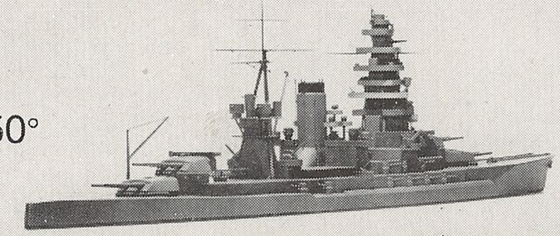
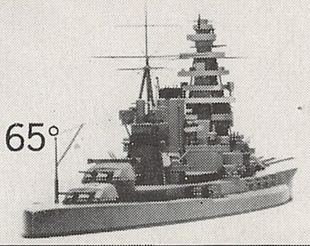
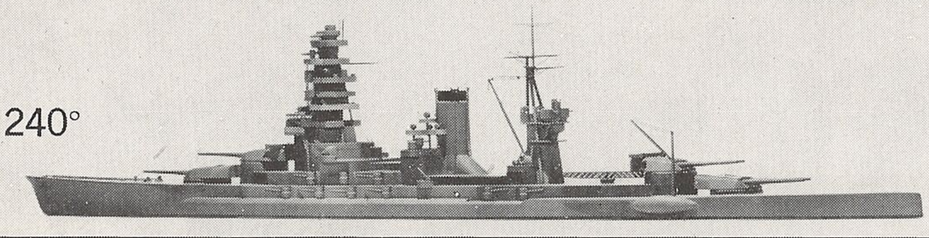


165°

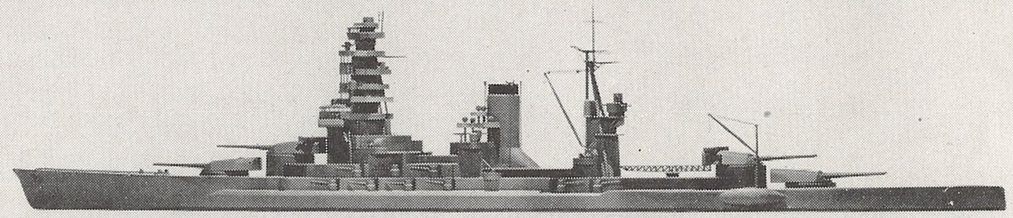


180°

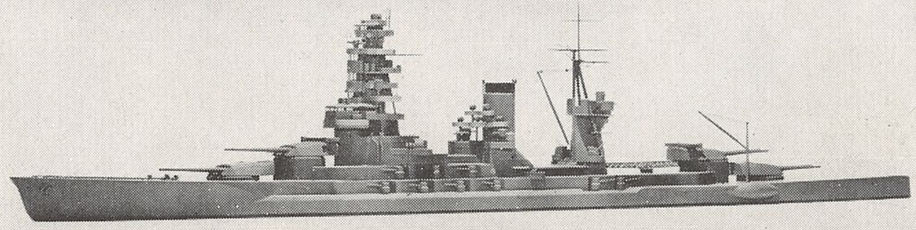
240°



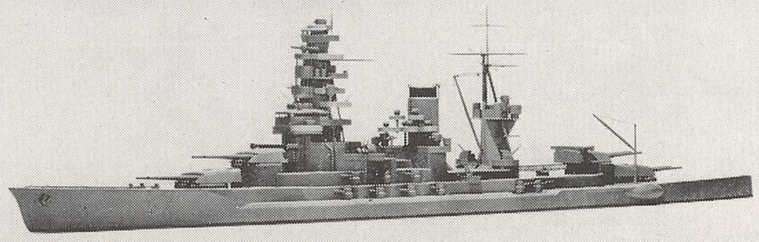
255°



300°



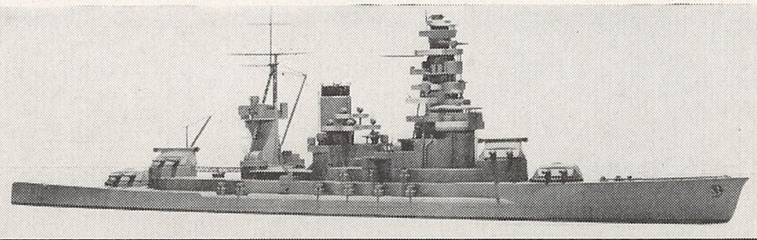
315°



ONI 41-42

KNOTS	RPM	KNOTS	RPM	KNOTS	RPM	KNOTS	RPM
	400		300		200		100
	375		275		175		75
	350		250		150		50
26	330		225		125		25

45°



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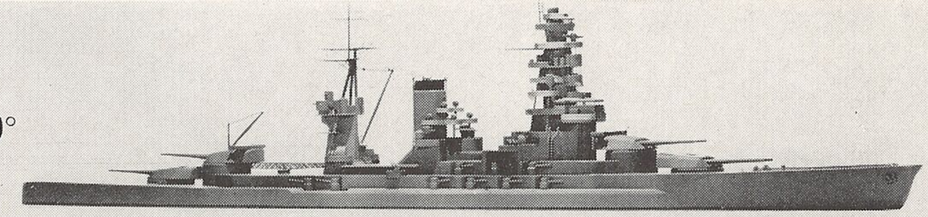
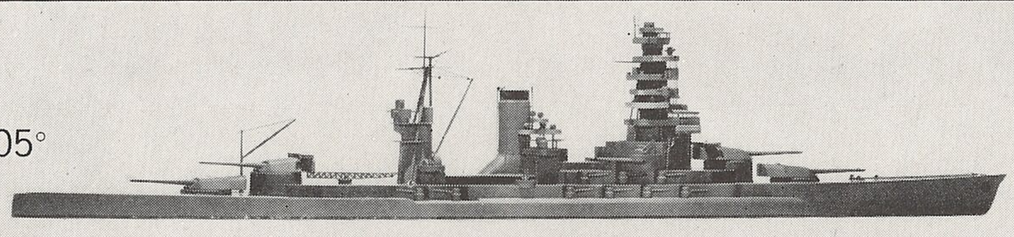


105°



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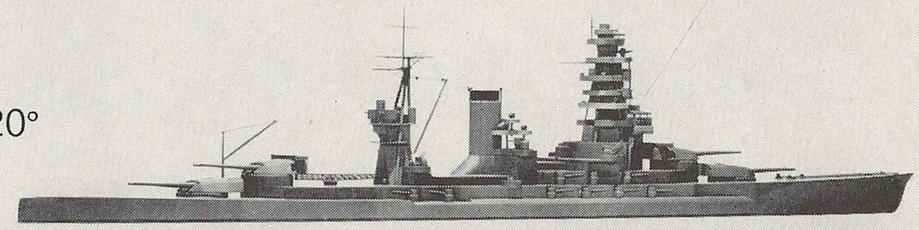
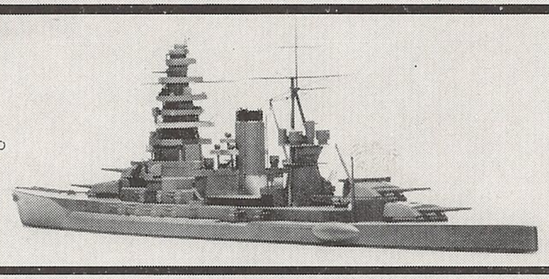


195°

210°



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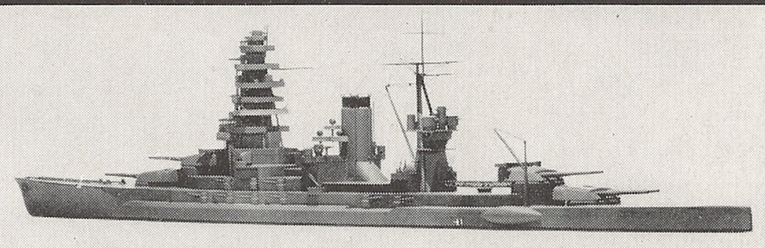
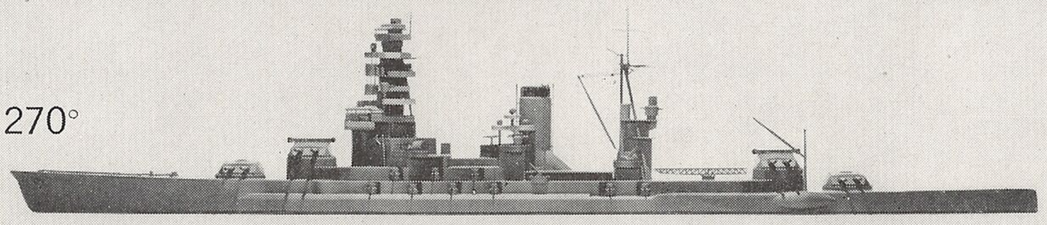


270°



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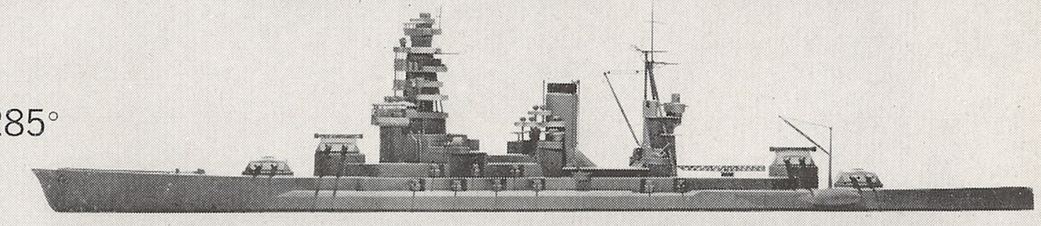

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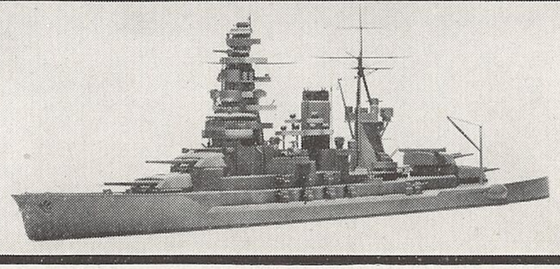
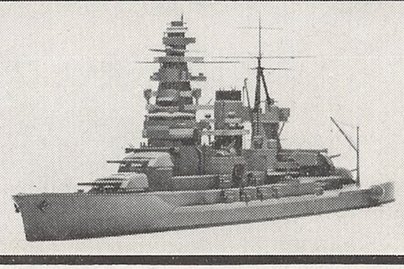
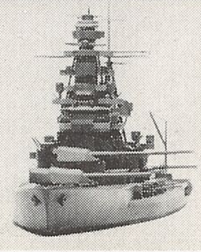


340°



350°

355°



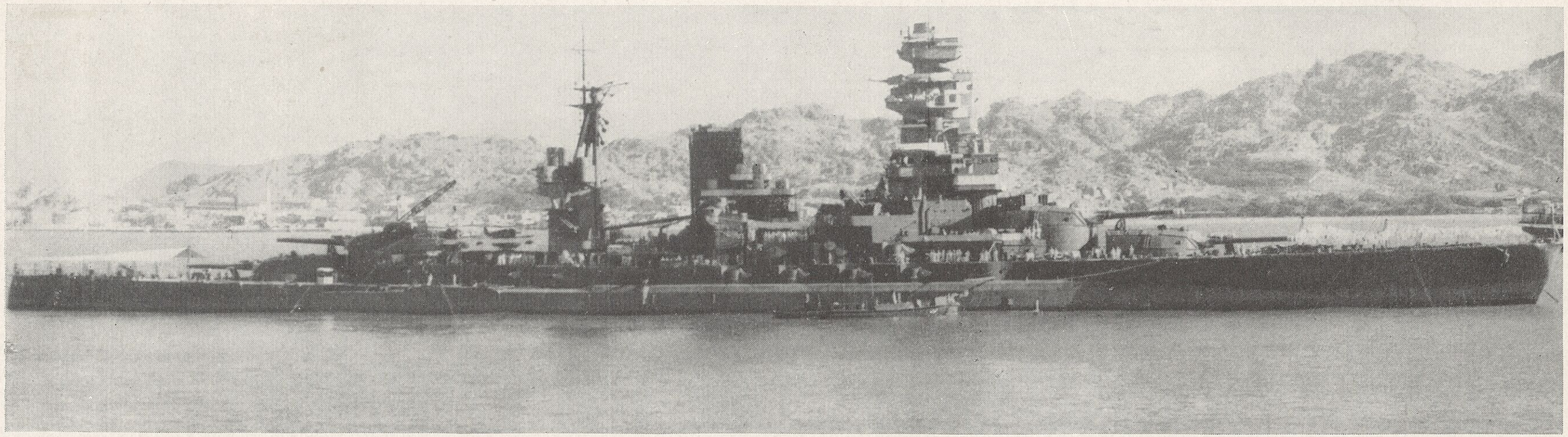
NAGATO CLASS—BB9-10

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—OCTOBER, 1942

	BEGUN	COMPLETED	MODERNIZED
NAGATO-BB9	8/28/17	11/25/20	1935
MUTSU -BB10	6/1 /18	10/24/21	1936

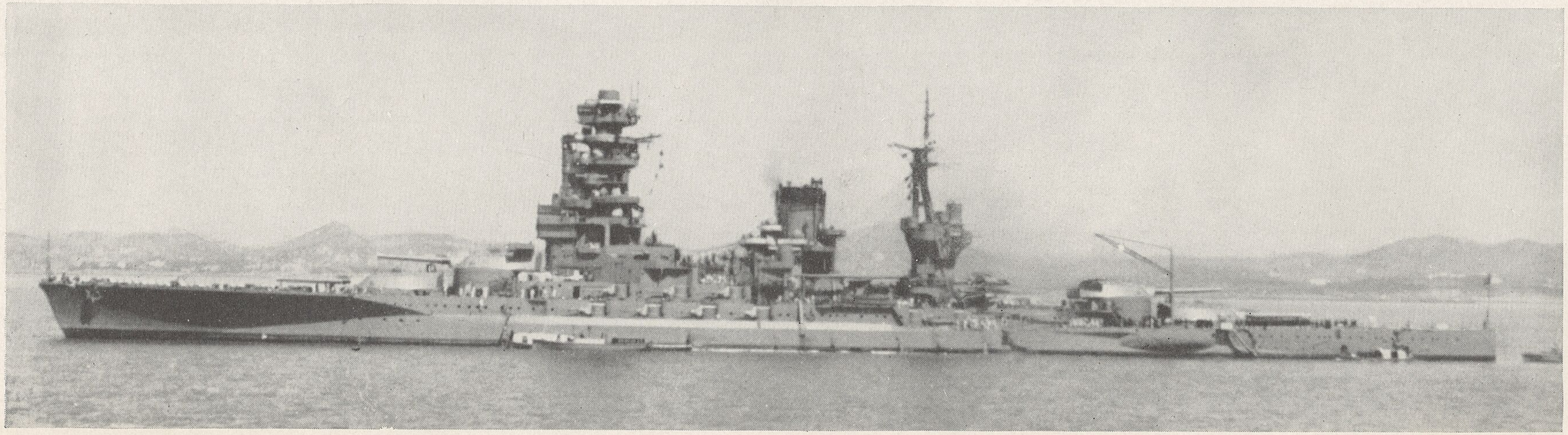
ONI 41-42

RESTRICTED



NAGATO-1938 ↓

↑ MUTSU-DEC. 1938



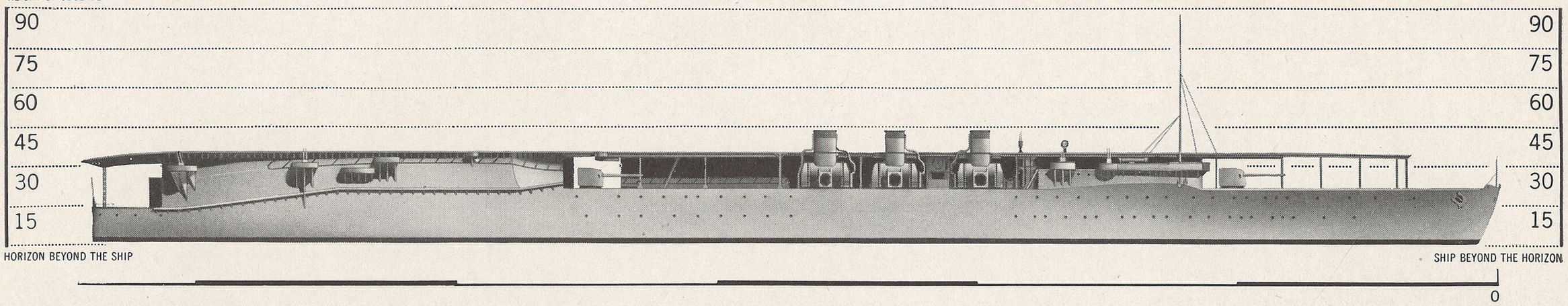
CARRIERS

ONI 41-42 RESTRICTED

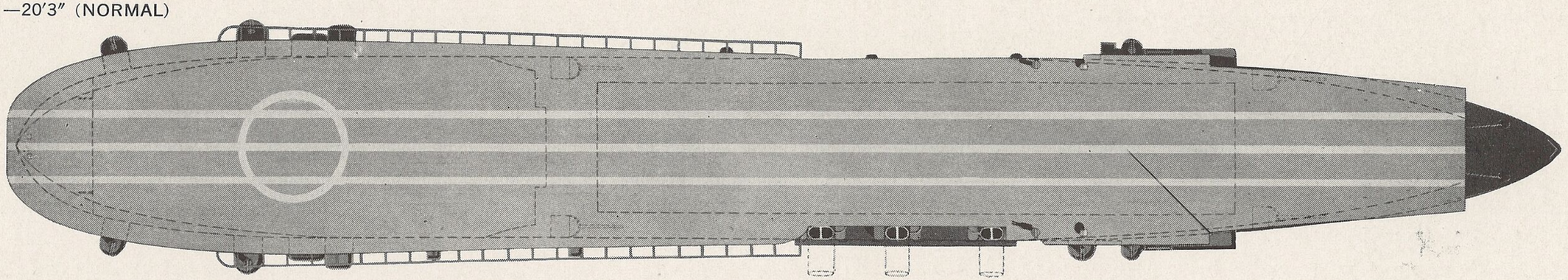
ALSO SPELLED HOSYO

HOSHO—CV 1

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—NOVEMBER, 1942



LENGTH—540′6″ OA—531′ WL
BEAM —62′
DRAFT —20′3″ (NORMAL)



DISPLACEMENT—7,470 TONS (STANDARD)—9,500 TONS (NORMAL)

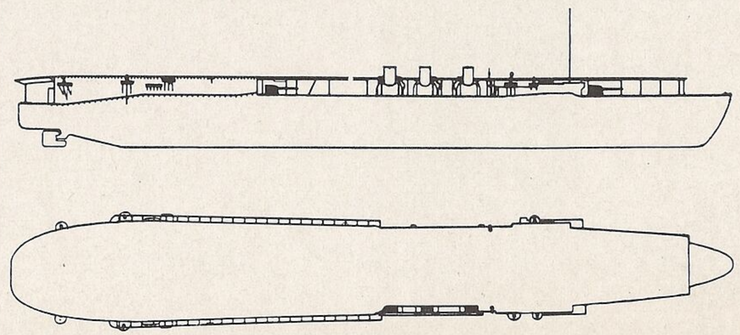
ARMAMENT

	MAX. ELEV.	RANGE
4–5″.5 (50)	30°	19,000 YD.
?2–3″ (40)	85°	6,000 YD.
–AAMG		

36 AIRCRAFT–12 FIGHTER
12 SCOUT OBSERVATION
12 TORPEDO BOMBER

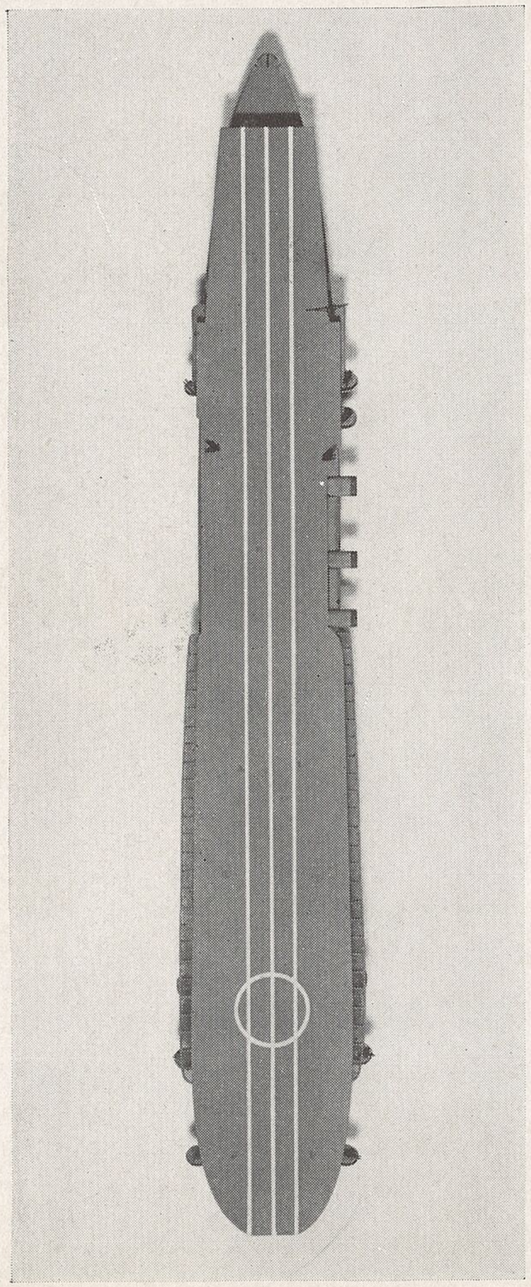
PROPULSION

MACHINERY— 2 GEARED TURBINES
BOILERS— 8 KAMPON
FUEL— OIL 1,500 TONS
DESIGNED HP— 30,000
DESIGNED SPEED—26 KNOTS
ENDURANCE— 2,170 @ 26 KNOTS
8,680 @ 12 KNOTS

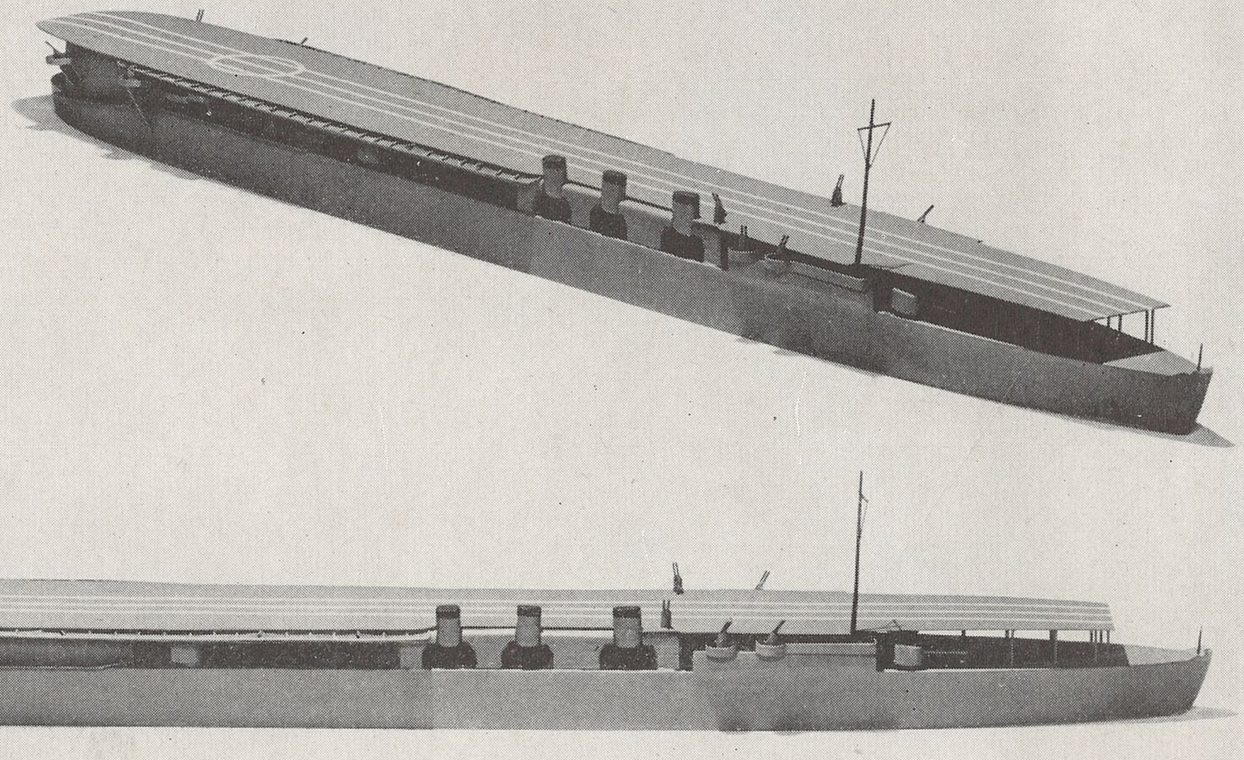


HOSHO—CV 1

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION
AND CHARACTERISTICS SECTION —DECEMBER, 1942

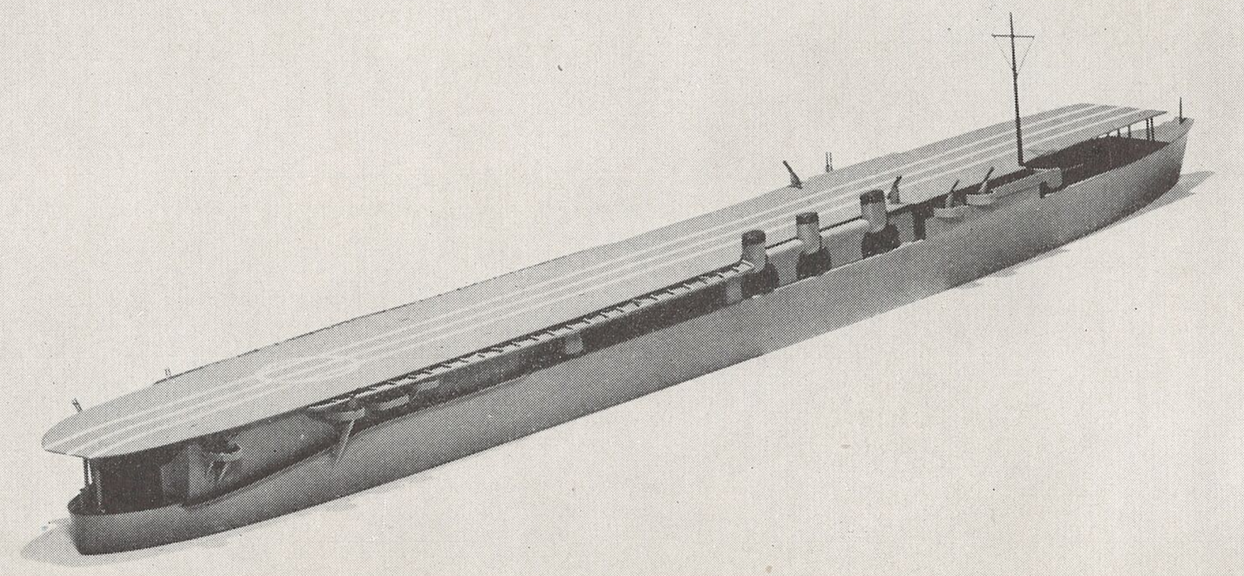


45°



90°

135°



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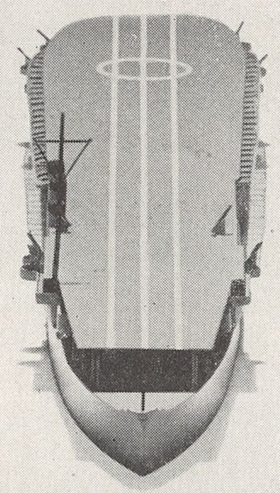
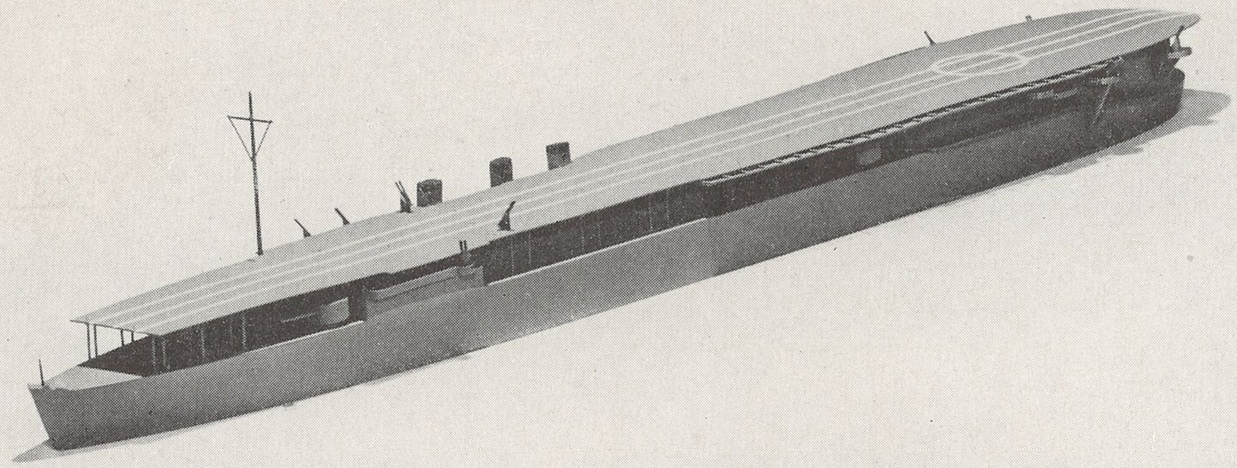
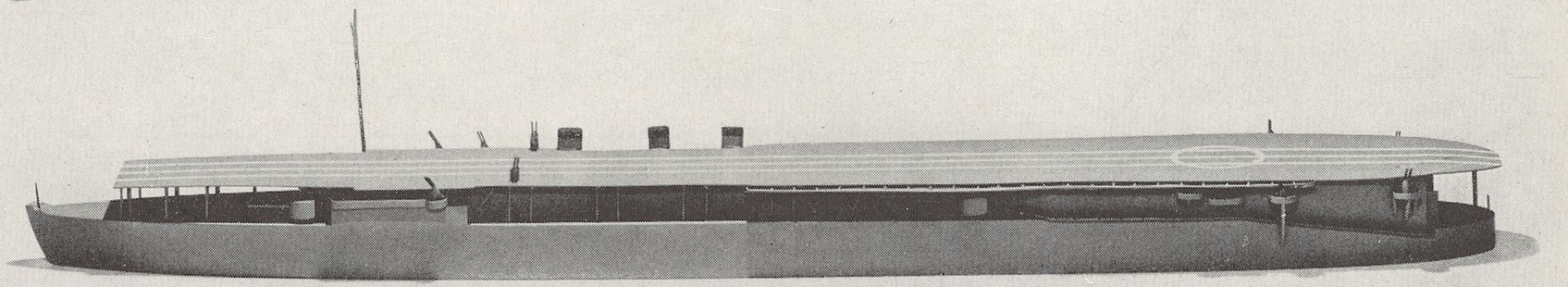
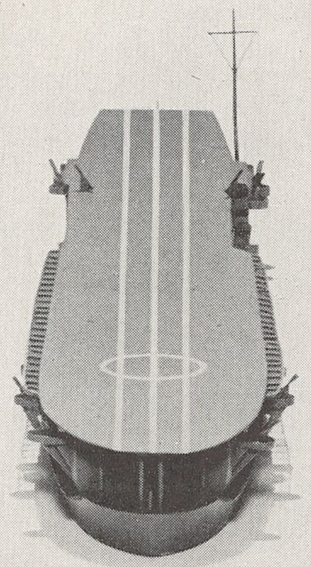




315°



270°



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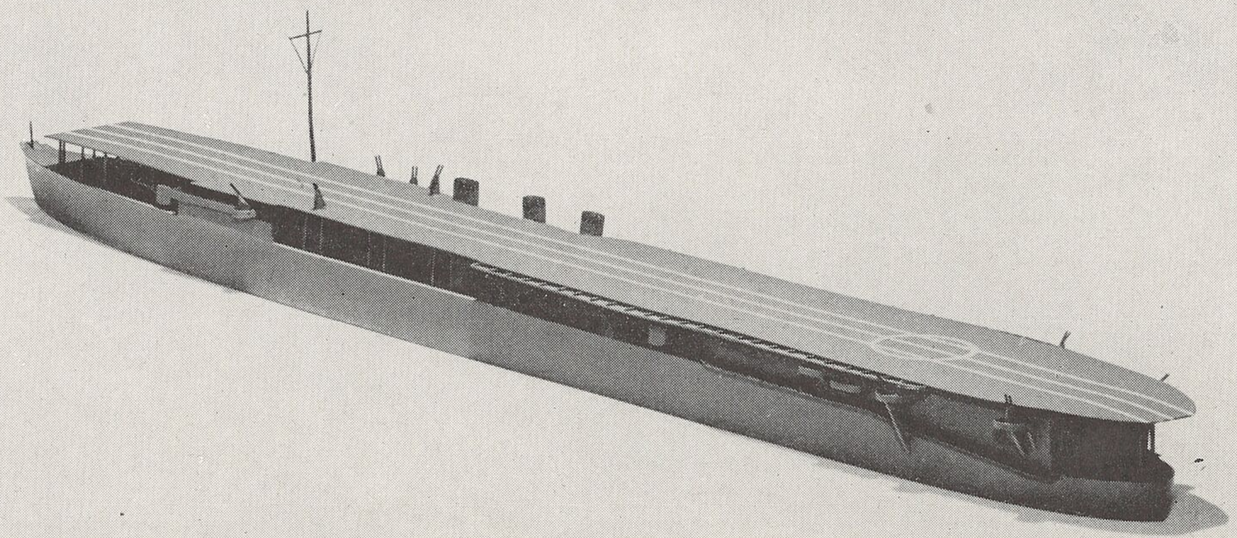
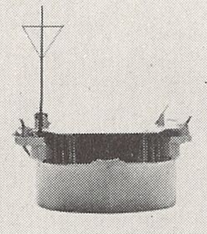


225°

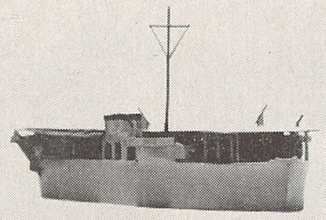
HOSHO—CV1

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—NOVEMBER, 1942

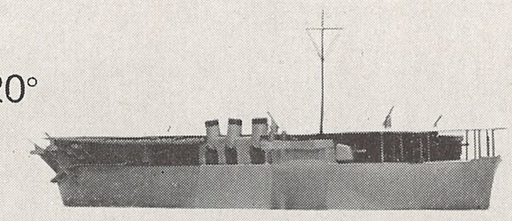
0°



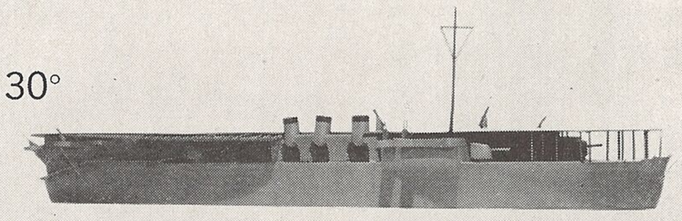
10°



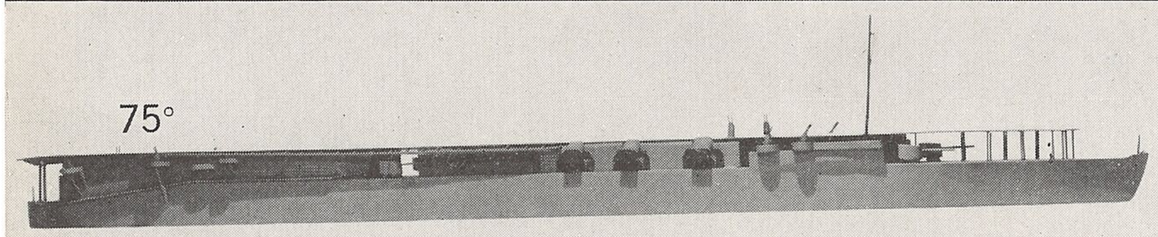
20°



30°



75°



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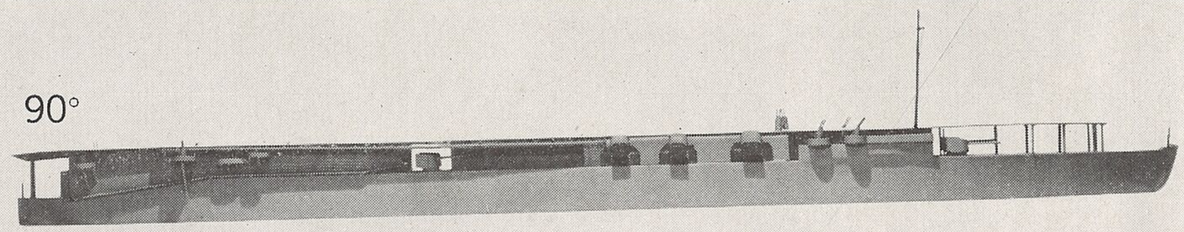

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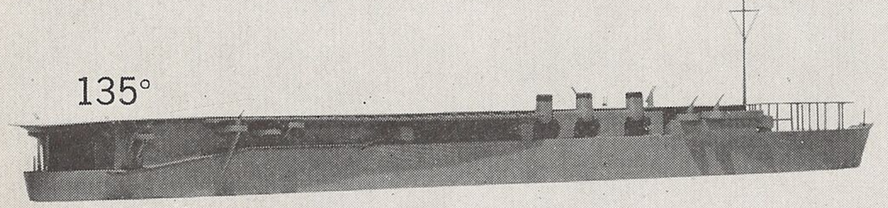

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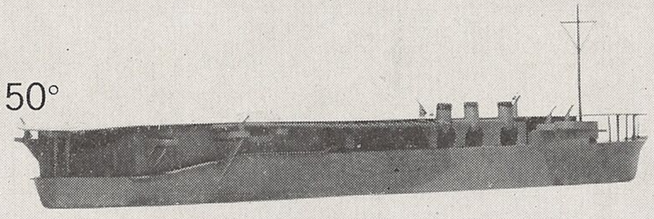

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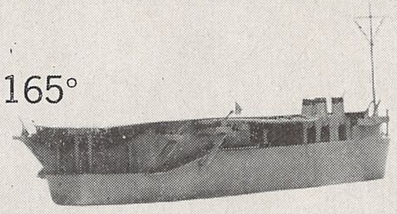

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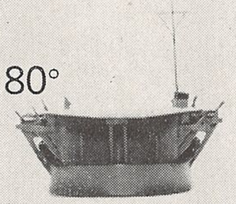

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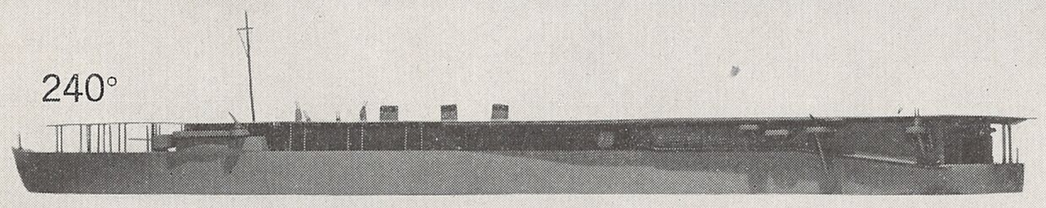

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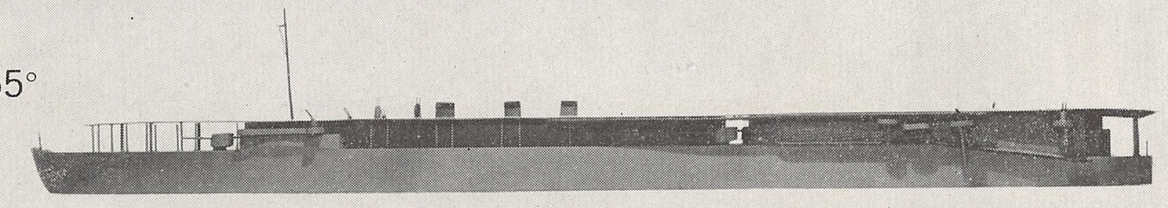
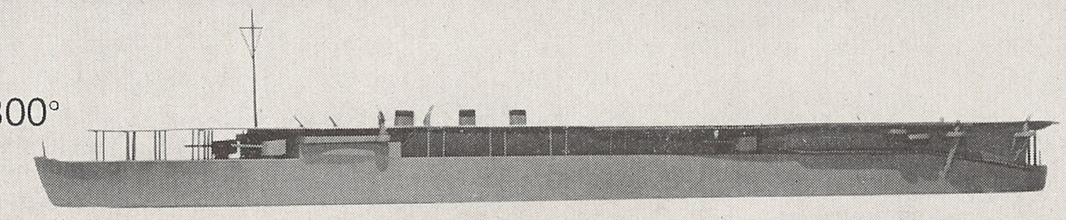


300°



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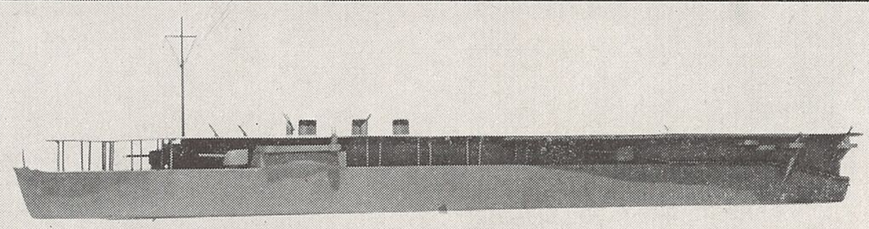

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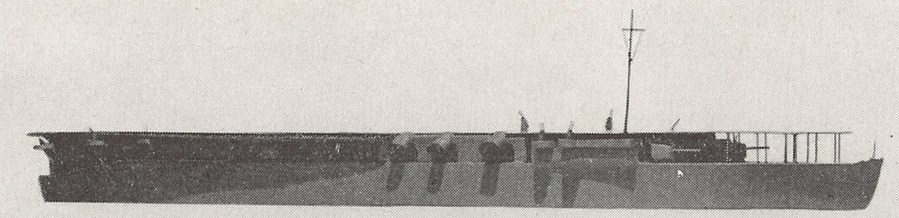

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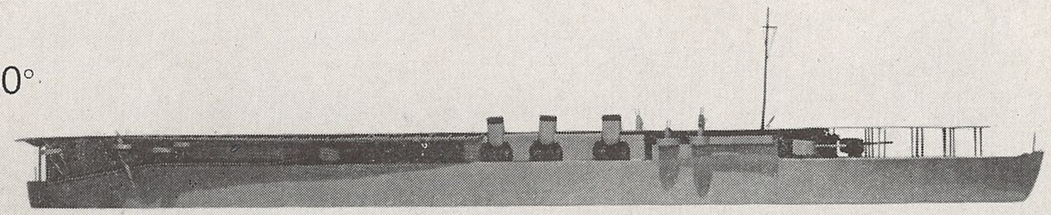

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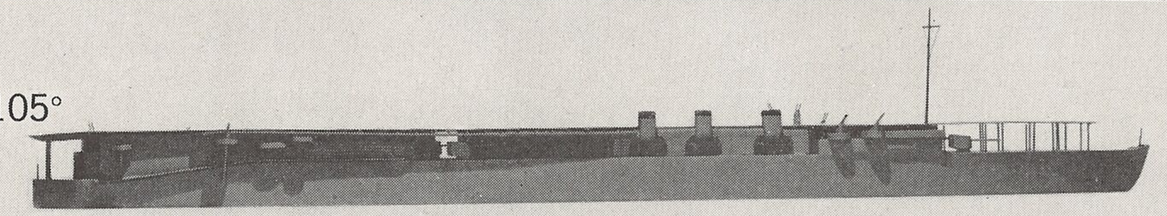

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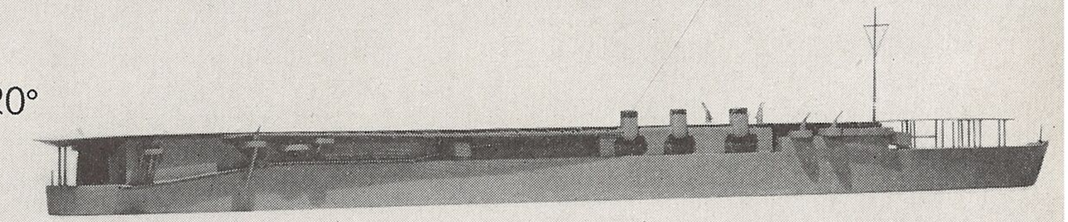

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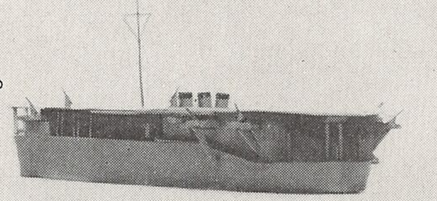
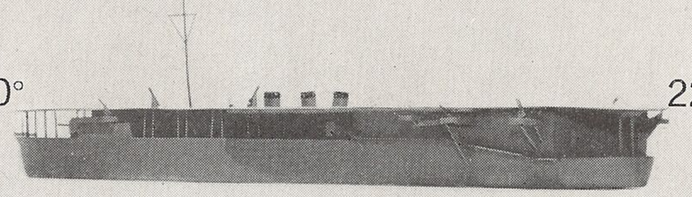
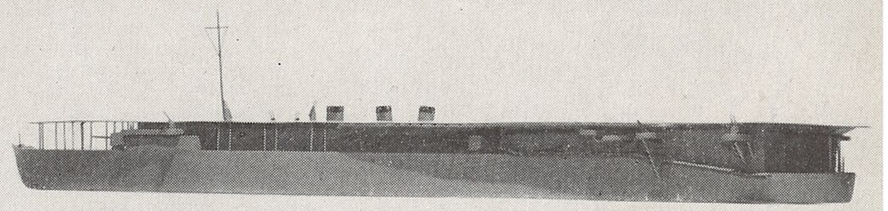


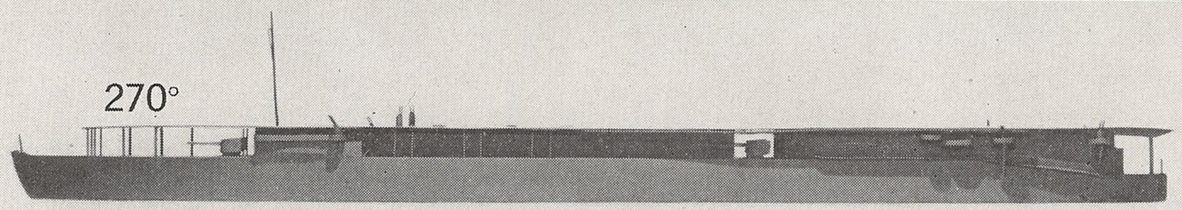
210°



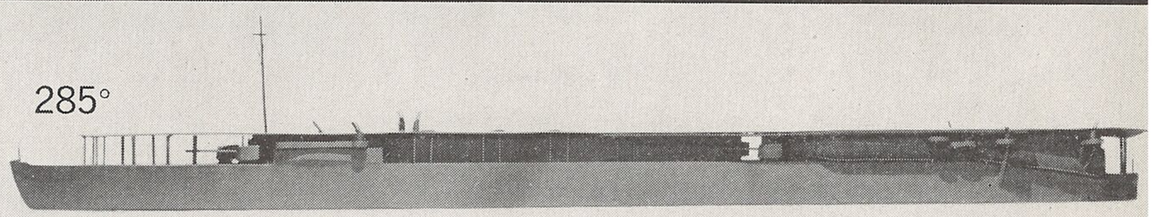
225°



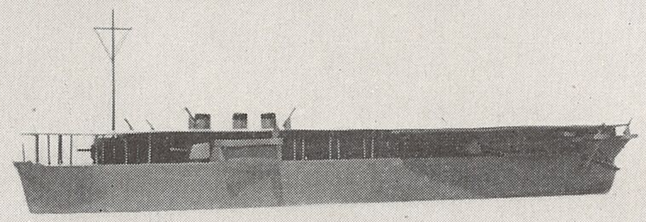
270°



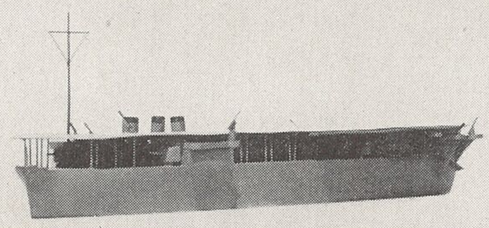
285°



330°



340°



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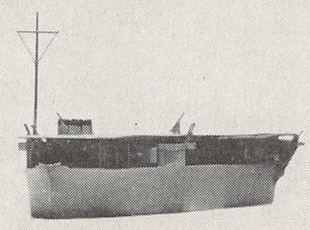
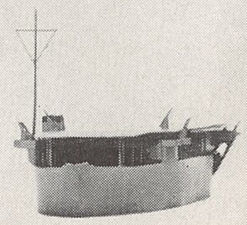


355°

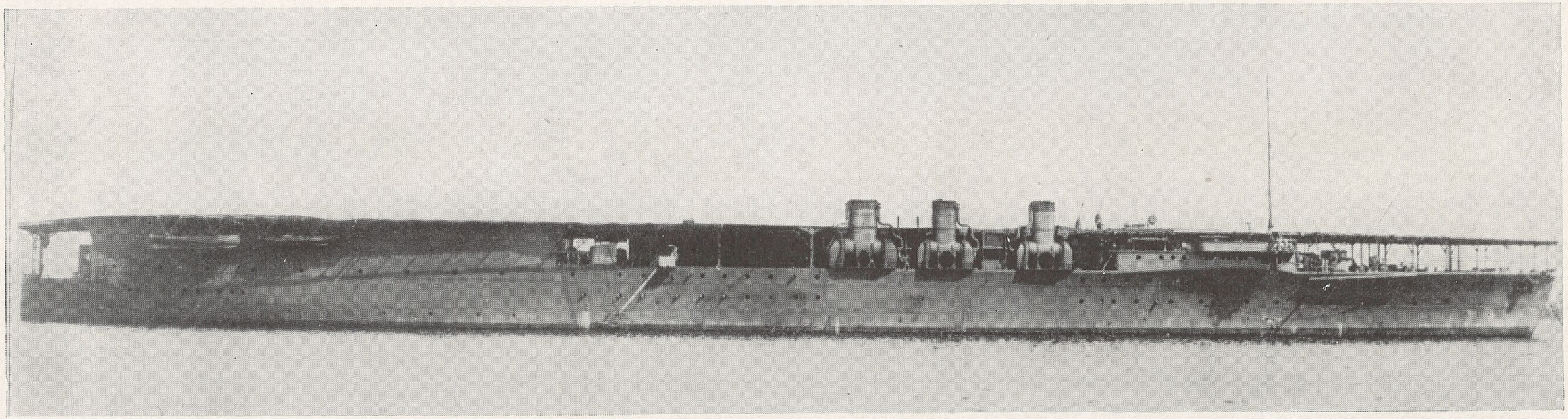


HOSHO—CV1

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—NOVEMBER, 1942

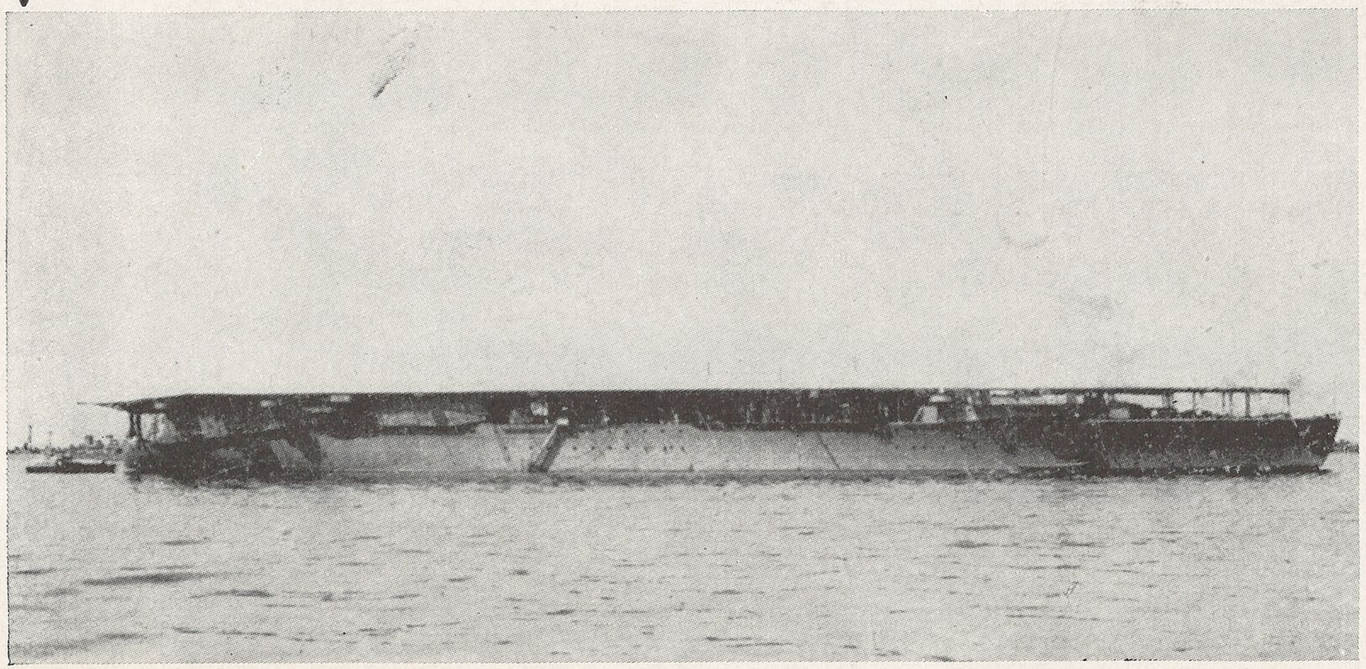
BEGUN — DECEMBER 16, 1919
COMPLETED — DECEMBER 27, 1922

ONI 41-42
RESTRICTED

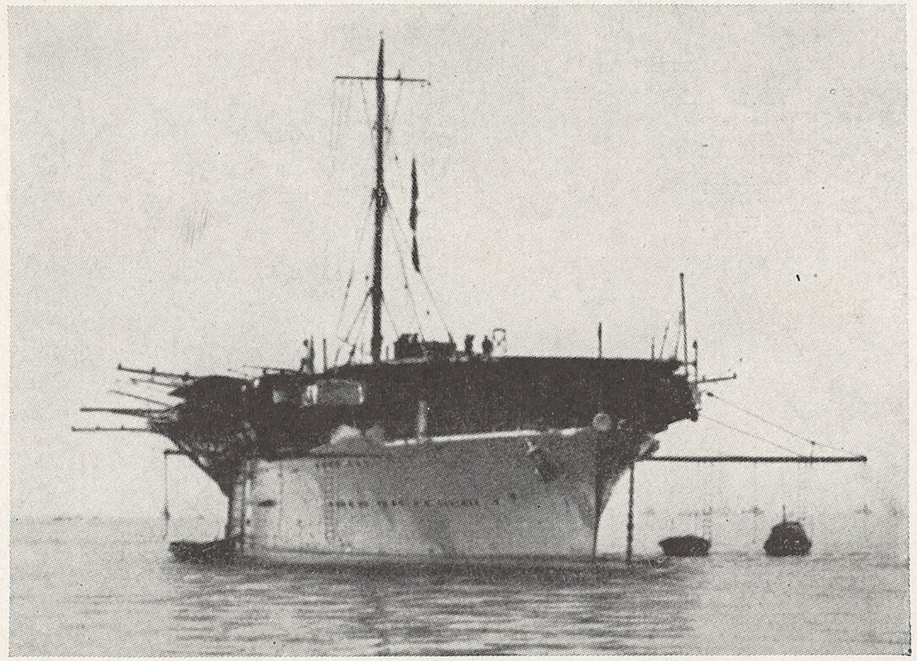


1939

JAPAN'S FIRST CARRIER, ALSO FIRST BUILT AS A CARRIER



1939

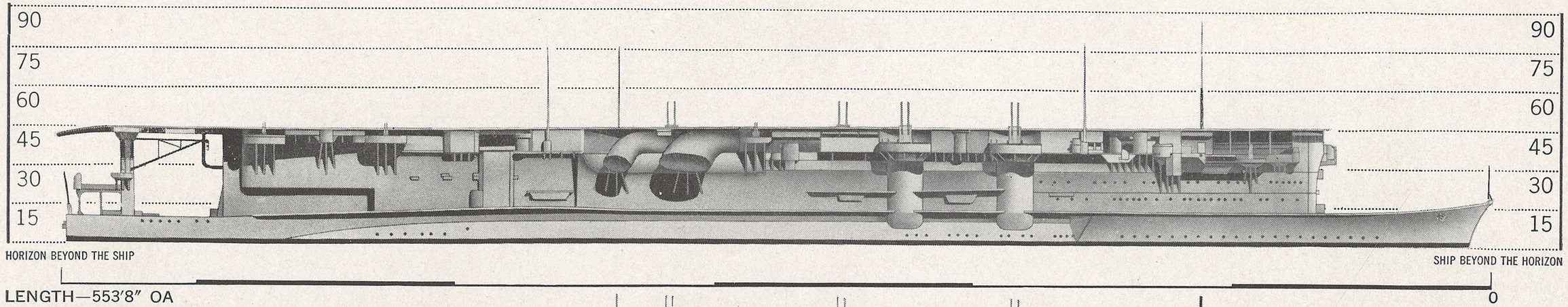


ONI 41-42 RESTRICTED

ALSO SPELLED RYUZYO

RYUJO—CV 4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—NOVEMBER, 1942



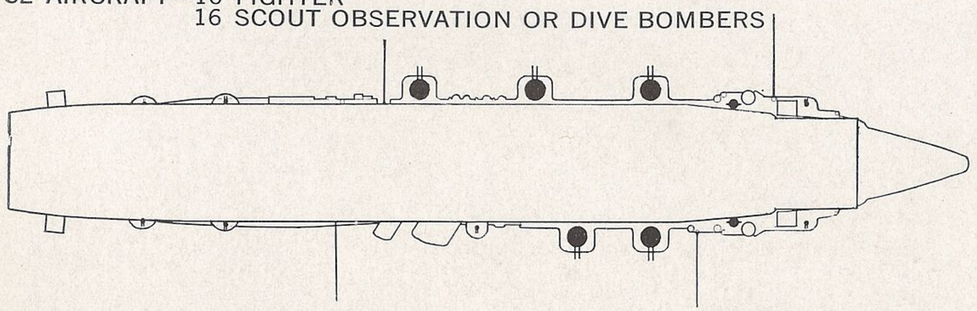
LENGTH—553′8″ OA
BEAM —60′8″ DRAFT—14′4″

DISPLACEMENT—7100 TONS (STANDARD) 7600 TONS (NORMAL)

ARMAMENT

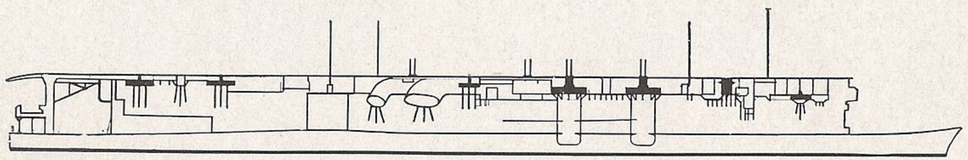
	MAX. ELEV.	RANGE
10–5″ AA TWIN MOUNTS	85°	18,000 YD.
24 AAMG		

32 AIRCRAFT—16 FIGHTER
16 SCOUT OBSERVATION OR DIVE BOMBERS



PROPULSION

MACHINERY —2 TURBINES
BOILERS— ? KAMPON
FUEL— OIL 2000 TONS
DES HP— 40,000
DES SPEED— 25 KNOTS
ENDURANCE—3200 @ 25 KNOTS
9500 @ 12 KNOTS



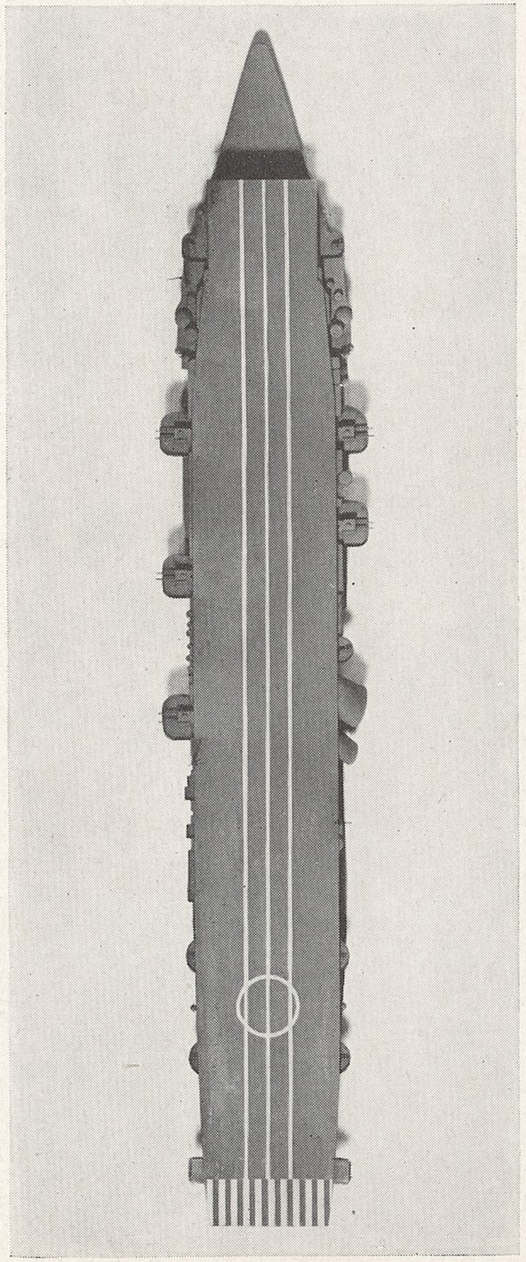
PROTECTION

BLISTER AND
COMPARTMENTATION

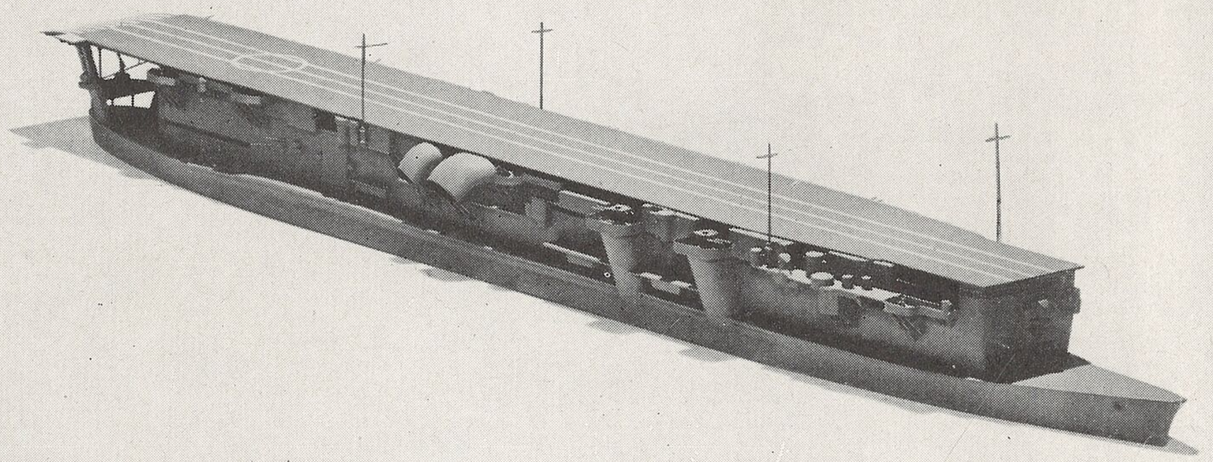
KNOTS	RPM
	400
	375
	350
	325
	300
	275
	250
	225
	200
	175
	150
	125
	100

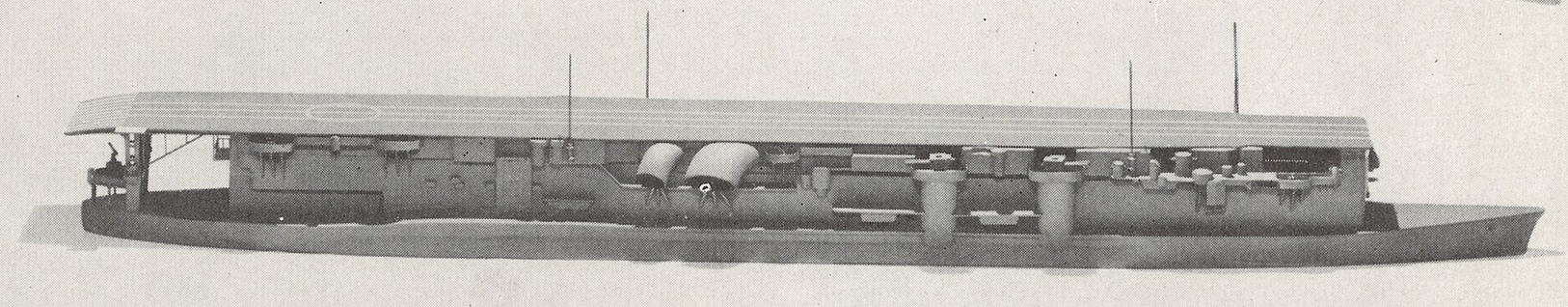
RYUJO—CV 4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION
AND CHARACTERISTICS SECTION —DECEMBER, 1942



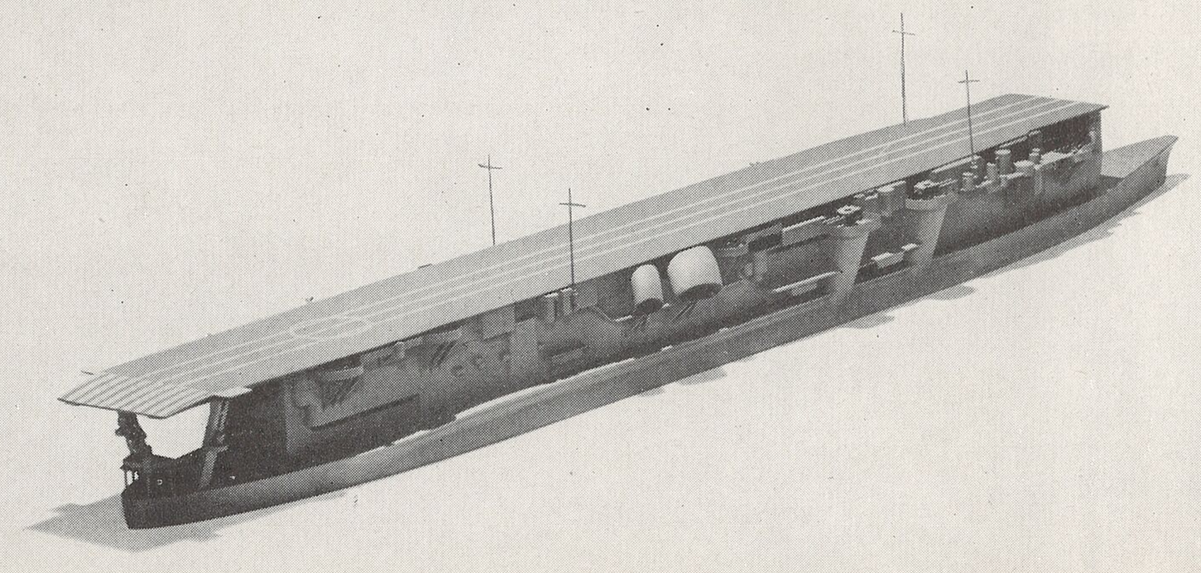
45°



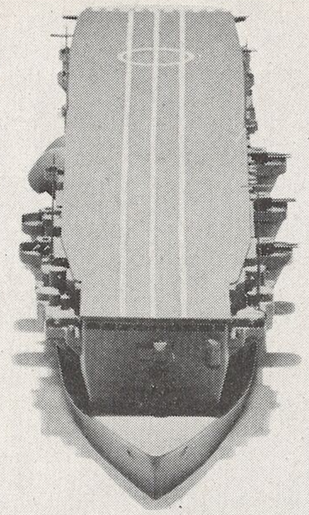


90°

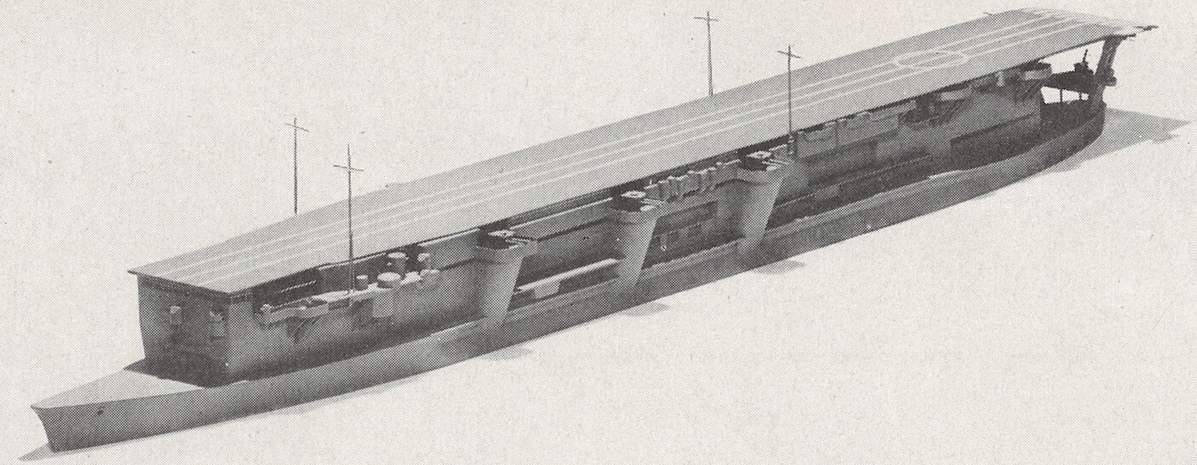
135°



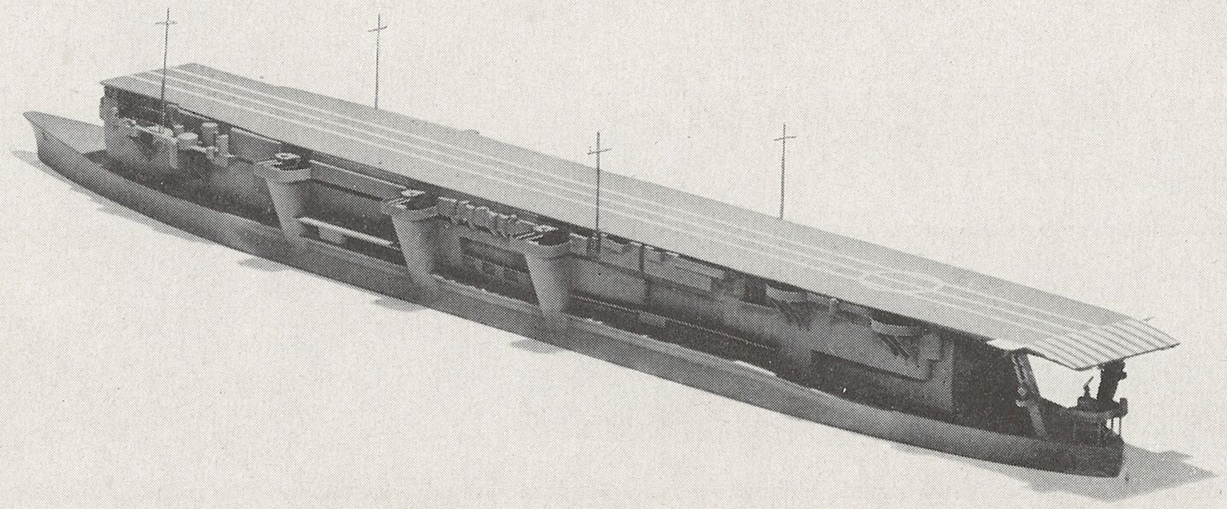
0°



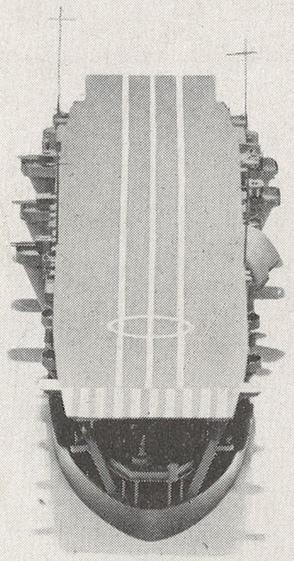
315°



270°



180°

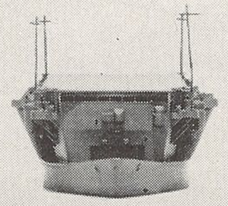


225°

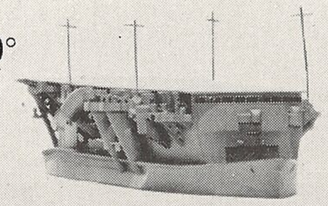
RYUJO—CV4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—NOVEMBER, 1942

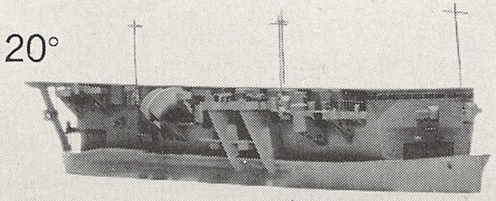
0°



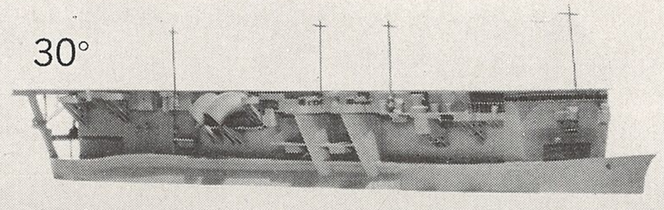
10°



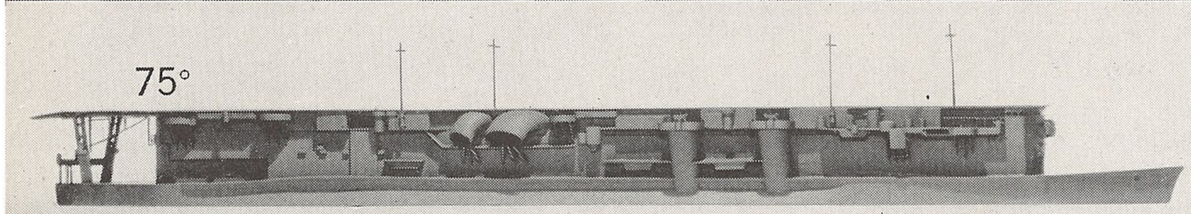
20°



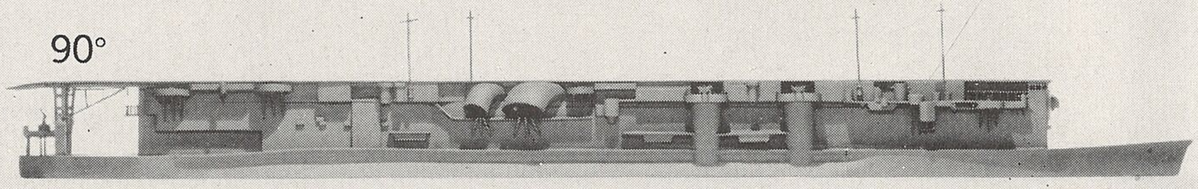
30°



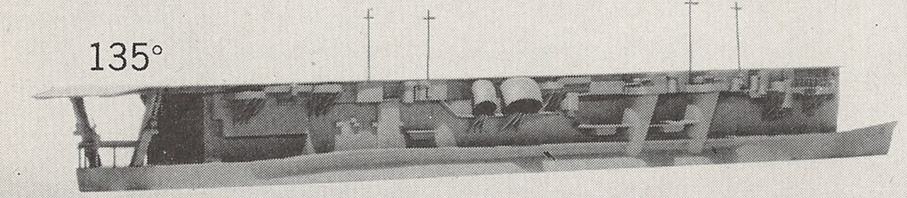
75°



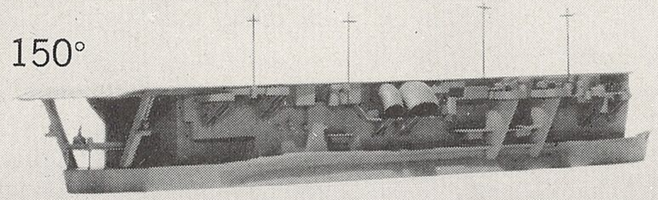
90°



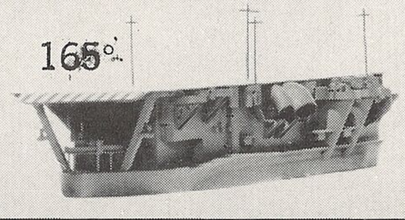
135°



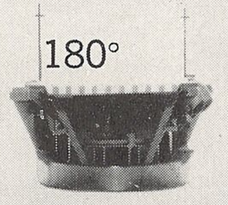
150°



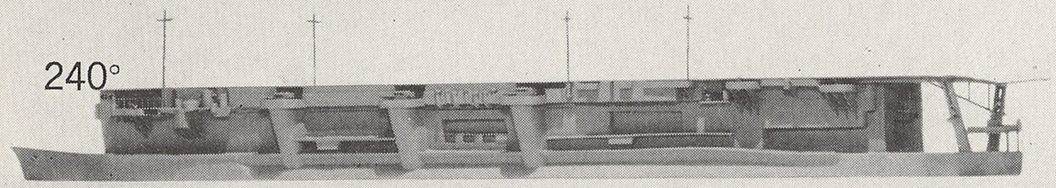
165°



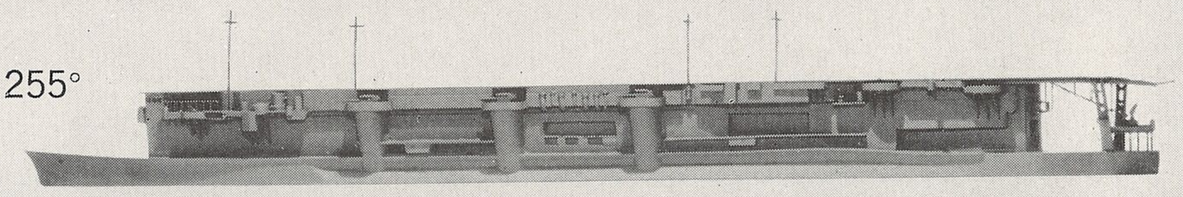
180°



240°



255°



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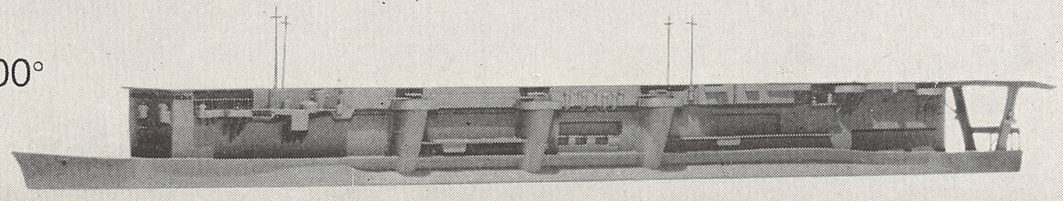
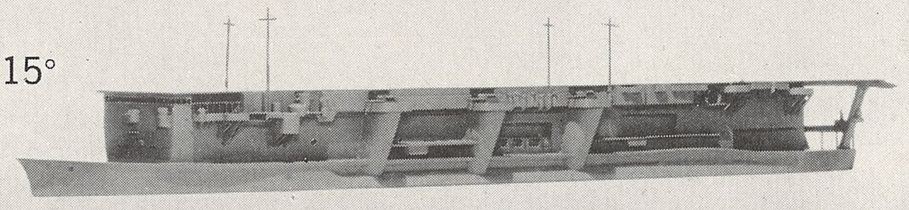


315°



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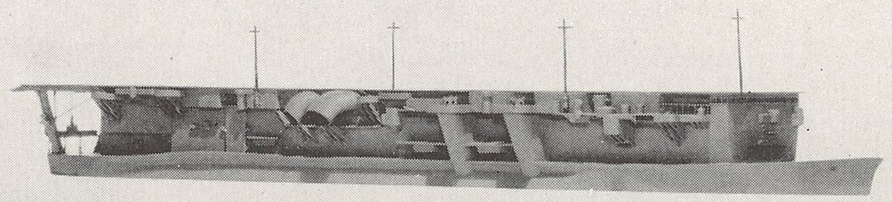
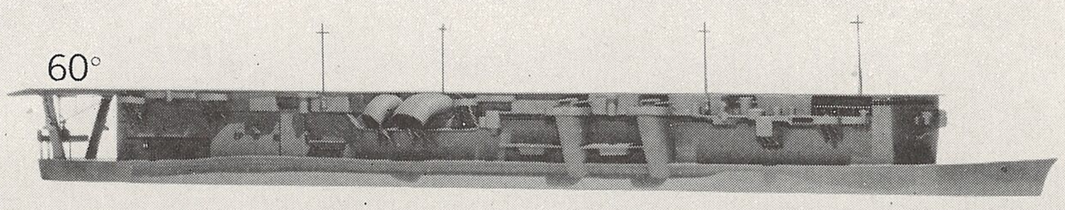


60°



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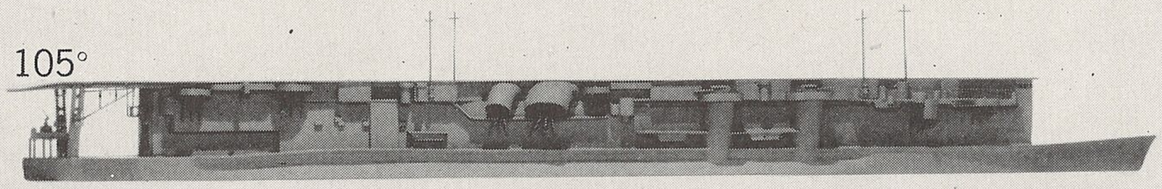
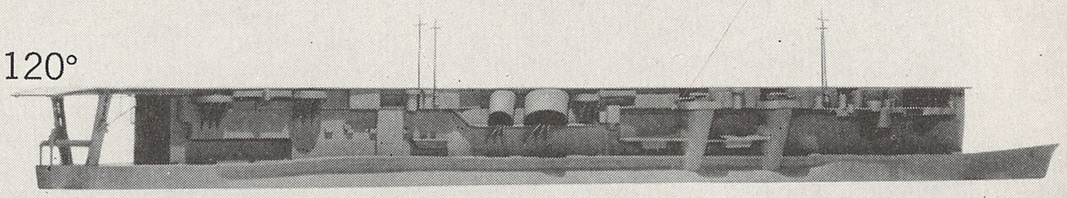
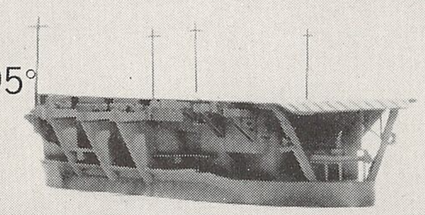


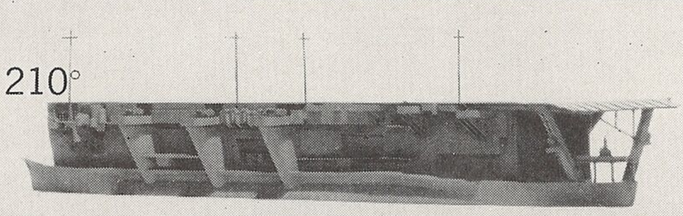
120°



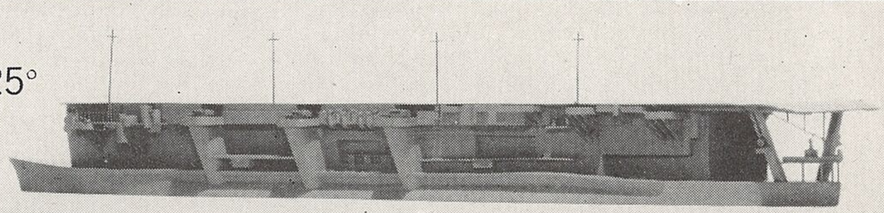
195°



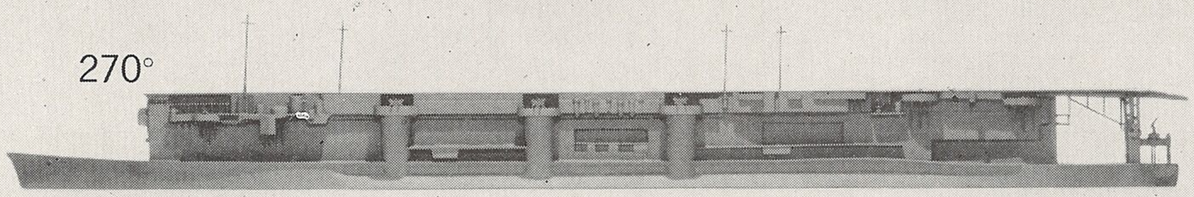
210°



225°



270°



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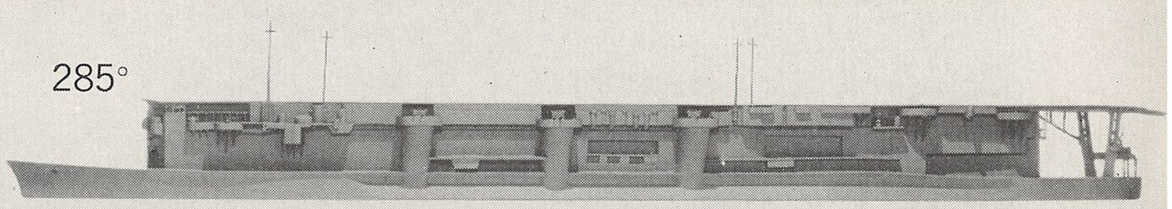

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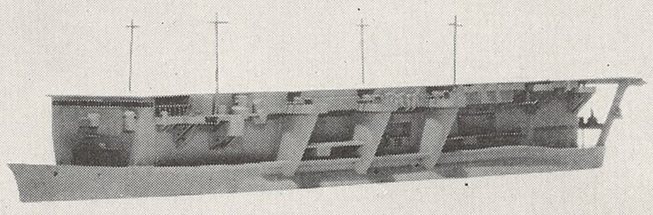
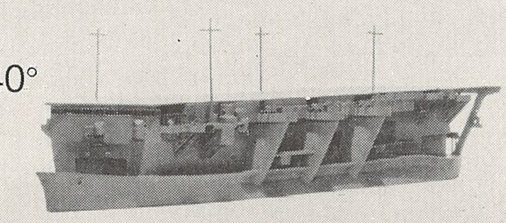


340°



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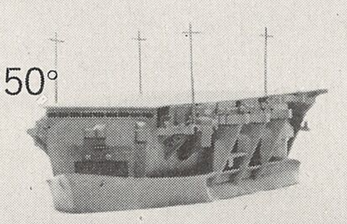
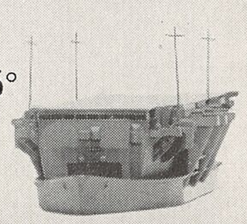


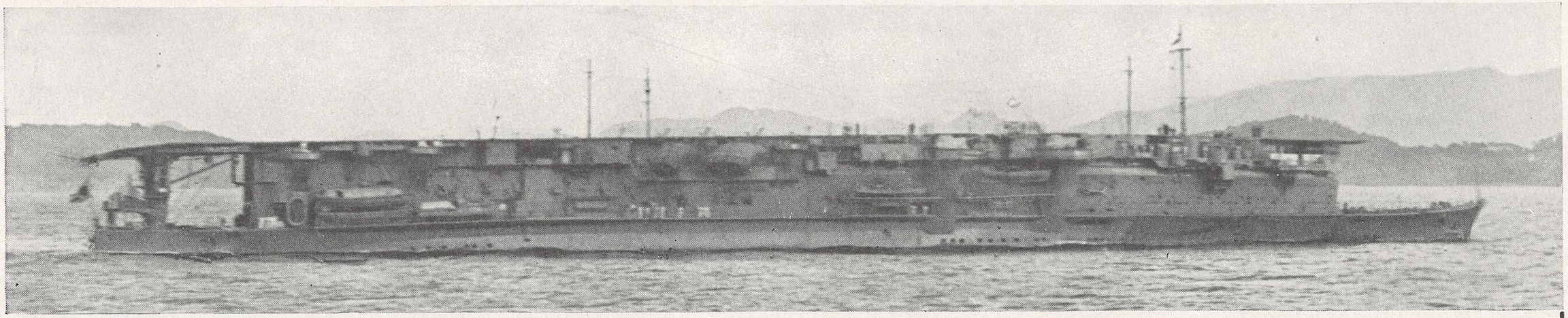
355°



RYUJO—CV 4

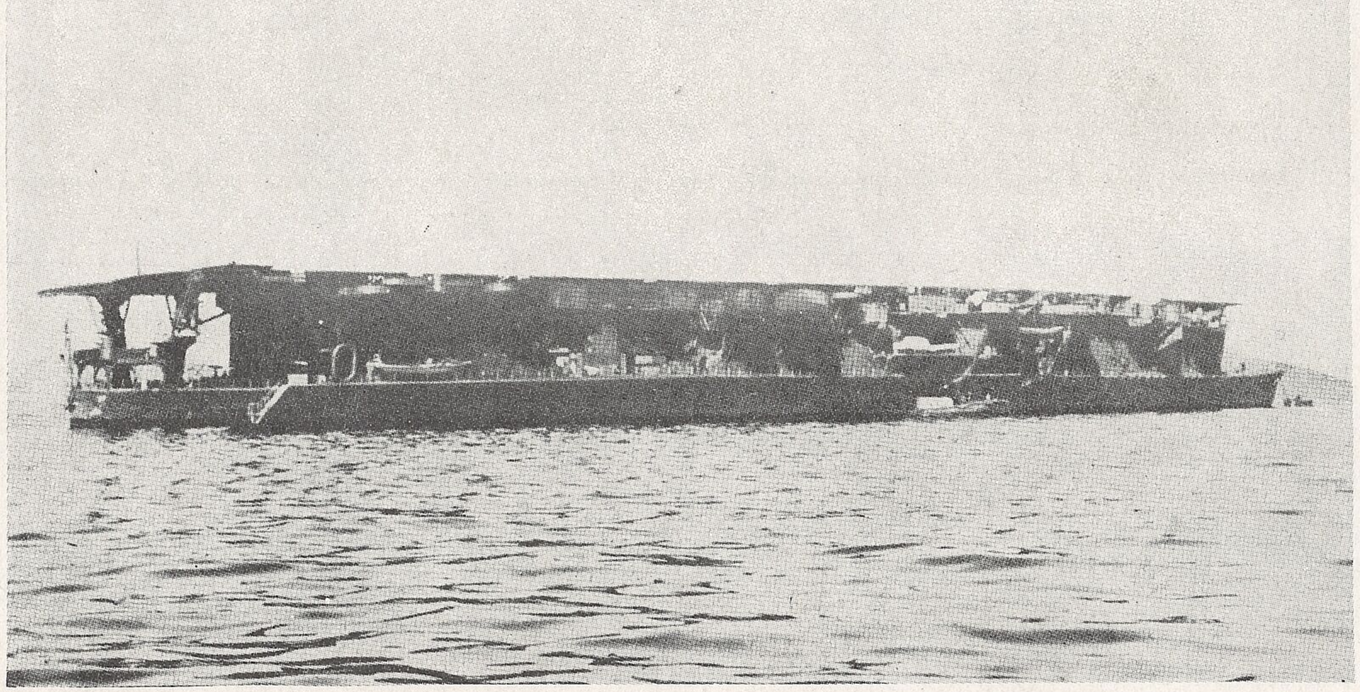
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—NOVEMBER, 1942

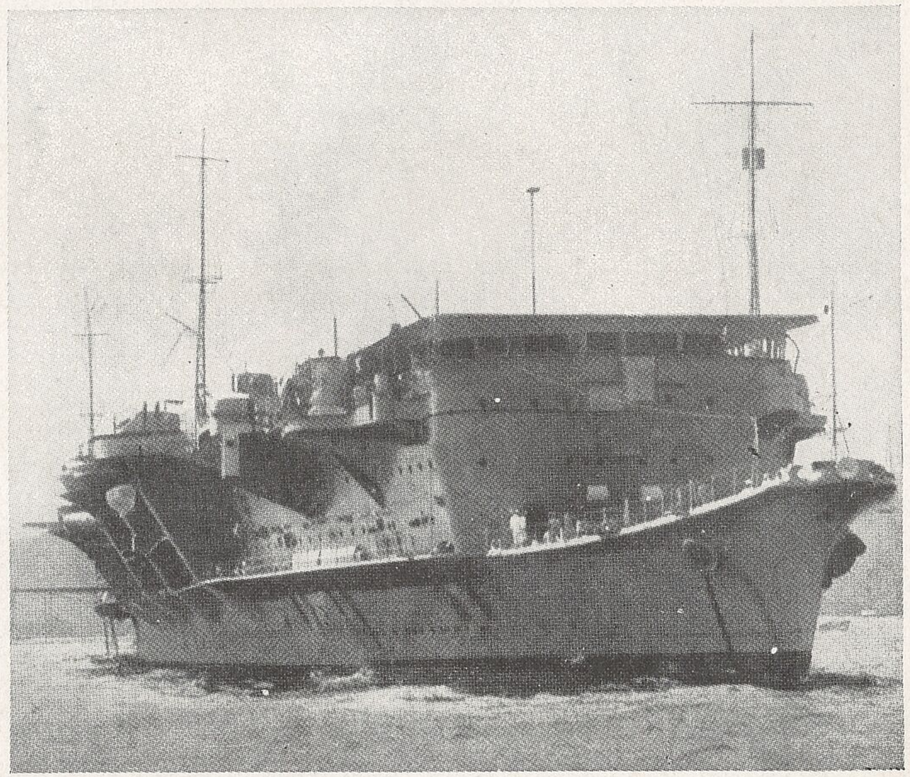
BEGUN—FEBRUARY 4, 1931. COMPLETED—1933
NOTE—ZUIHO, CONVERTED IN 1940, IS REPORTED TO RESEMBLE RYUJO WITH THE ADDITION OF A MUCH HIGHER BOW.



↑ JUNE 6, 1935

1938 ↓

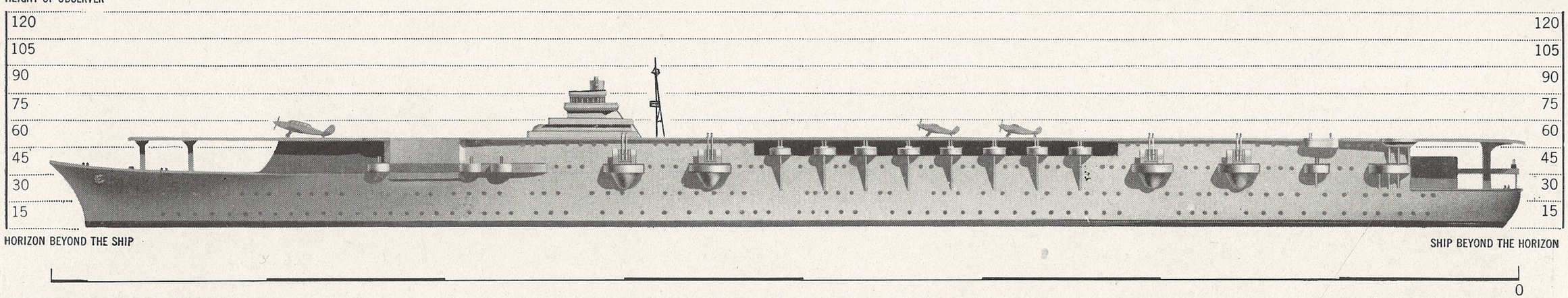




ONI 41-42 RESTRICTED

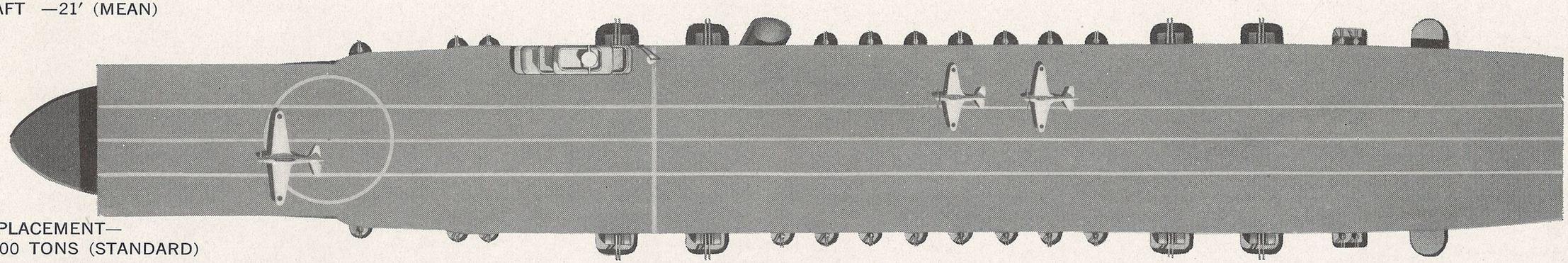
*SHOKAKU CLASS—CV7-8

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—OCTOBER, 1942



LENGTH—826′ OA—792′ WL
BEAM —93′
DRAFT —21′ (MEAN)

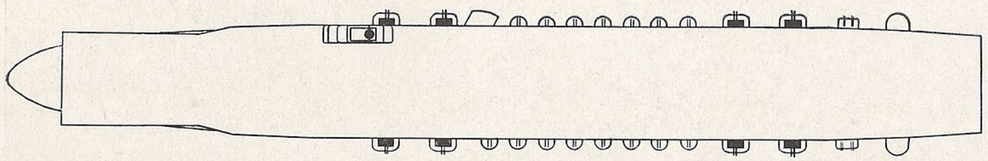
★ BASED ON INCOMPLETE INFORMATION



DISPLACEMENT—
15,000 TONS (STANDARD)

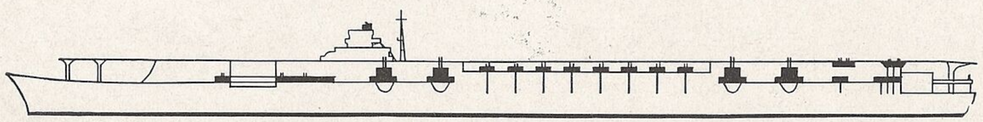
ARMAMENT

		MAX. ELEV.	RANGE
16–5″	TWIN MOUNTS	85°	18,000 YD.
AIRCRAFT–VF	—18–21		
	VOB OR VSB—18–21		
	VTB —18–21		



PROPULSION

MACHINERY— GEARED TURBINES
BOILERS—
FUEL— OIL—3500 TONS
DESIGNED HP—
DESIGNED SPEED—30 KNOTS (?)
ENDURANCE— 3900 @ 30(?) KNOTS
14,000 @ 12 KNOTS



KNOTS	RPM
	420
	400
	350
	300
	275
	250
	245
	240
	220
	200
	160
	150
	120
	80

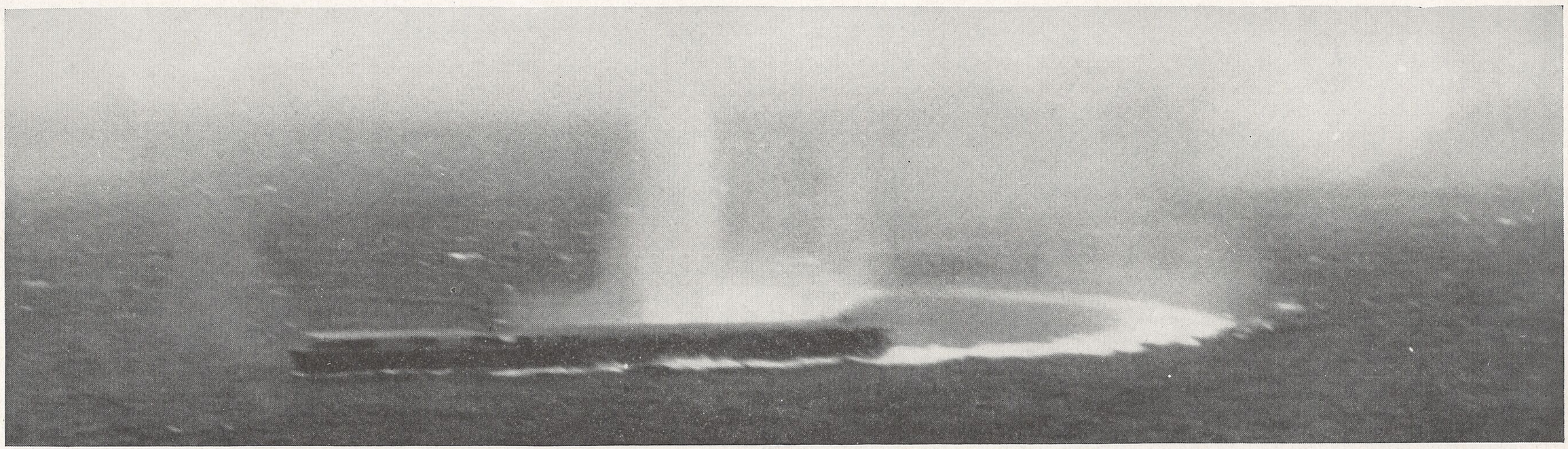
SHOKAKU CLASS—CV7-8

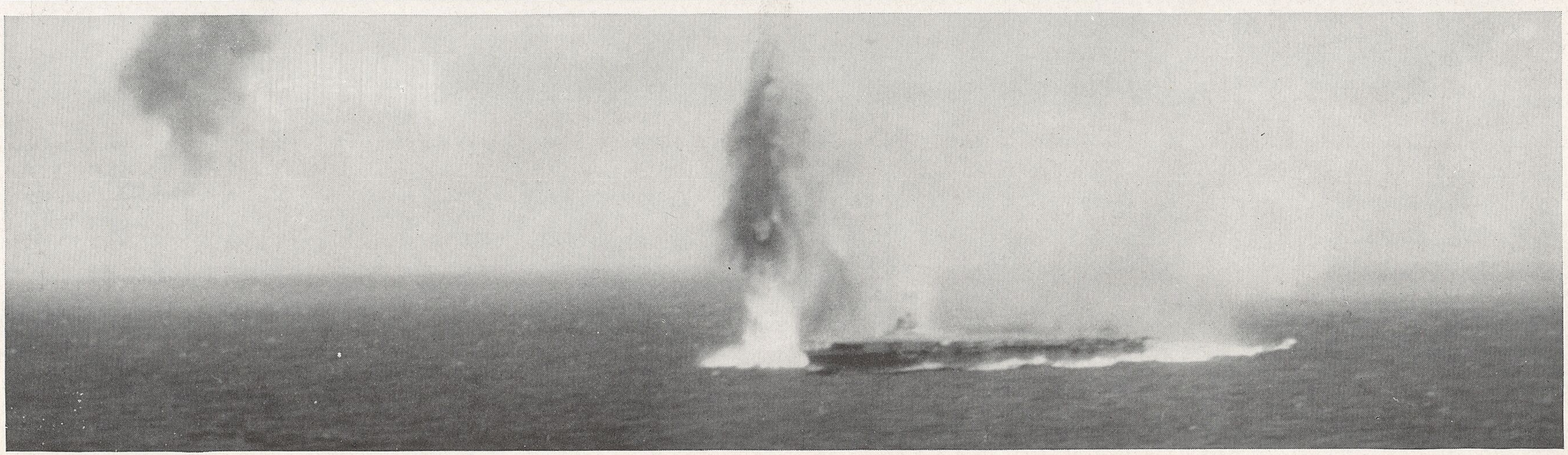
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—OCTOBER, 1942

	BEGUN	COMPLETED
SHOKAKU—CV7	12/11/37	8/ /40
ZUIKAKU— CV8	1938	1941

ONI 41-42

RESTRICTED





CORAL SEA—MAY 8, 1942

ONI 41-42 RESTRICTED

ALL DATA AND DRAWINGS PROVISIONAL

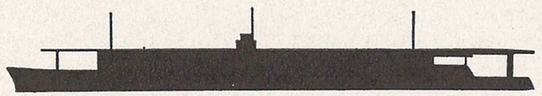
CV-CVE ESCORT AIRCRAFT CARRIERS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

SHOKAKU CLASS CV 7, 8
RECENT REPORTS INDICATE—DISPLACEMENT 20,000 TONS (STANDARD)
—72 AIRCRAFT CARRIED

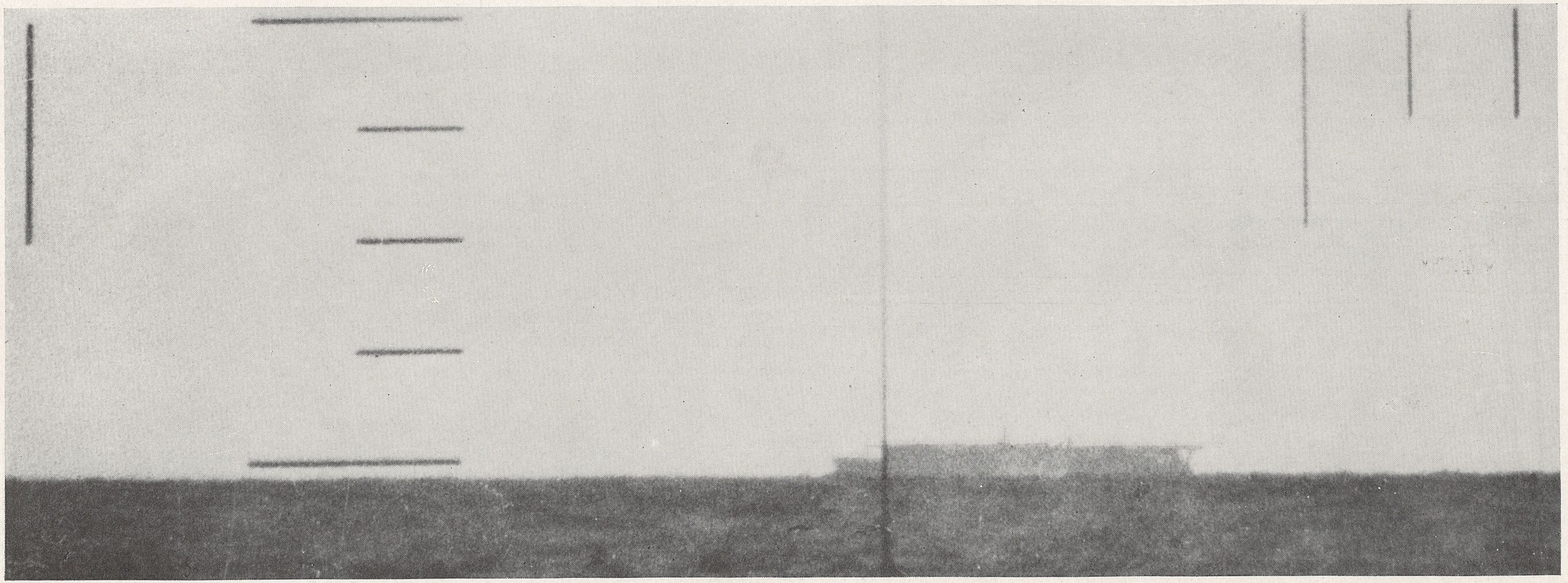
HITAKA CLASS CV 11, 12 (CONVERTED 1942)
LENGTH— 720′
ARMAMENT— 16-5″ AA
AIRCRAFT— 48-60
DESIGNED SPEED—28 KNOTS
HITAKA (HIYO) CV 11 (EX-IZUMO MARU)
HAYATAKA (JUNYO) CV 12 (EX-KASHIWARA MARU)

ZUIHO CLASS CV 9, 10 (EX-AS TAKASAKI—CONVERTED 1940)
LENGTH— 660′ O.A.
DISPLACEMENT— 15,000 (?) TONS (STANDARD)
DESIGNED SPEED—25 (?) KNOTS
AIRCRAFT— 36 PLANES CARRIED
SHOHO CV 10— REPORTED SUNK 5/7/42



PROBABLY ZUIHO CLASS

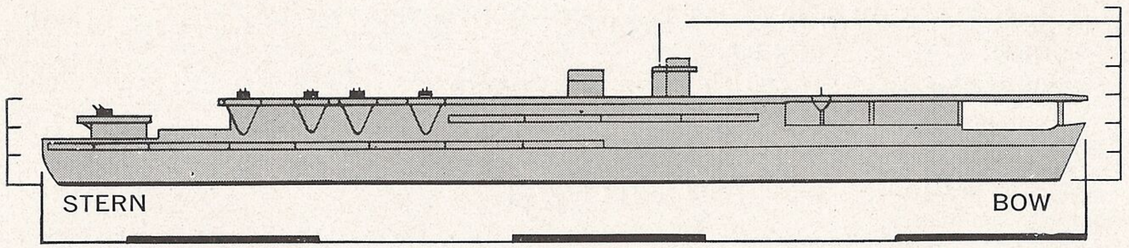
PHOTO 4/7/43



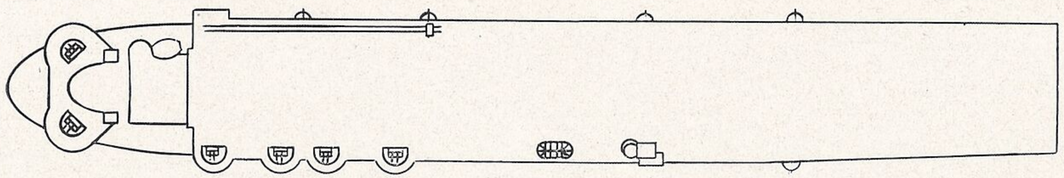
CVE ESCORT AIRCRAFT CARRIER

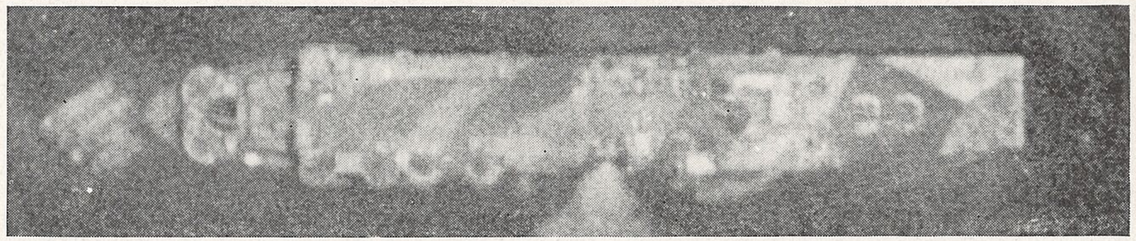
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

ONI 41-42



LENGTH—545′ OA, 516′ WL, 450′ FLIGHT DECK
BEAM— 69′ HULL, 74′ FLIGHT DECK
DRAFT— 29′ (MAXIMUM—PRE-CONVERSION)
12,775 TONS (GROSS—PRE-CONVERSION)



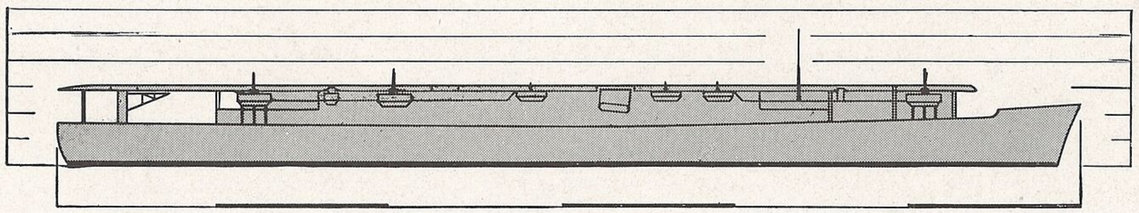


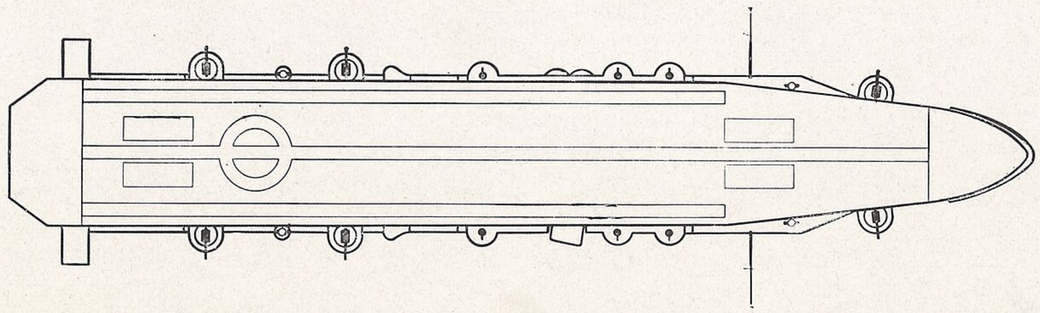
← **CVE 1—(EX-ARGENTINA MARU TYPE)** COMPLETED 1939—CONVERTED 1942

ARMAMENT— 6 HEAVY AA MOUNTS
5 AAMG MOUNTS

AIRCRAFT— 30 (?)

PROPULSION—(PRE-CONVERSION)—
MACHINERY— DIESEL
FUEL— OIL
BRAKE HP— 16,500
DESIGNED SPEED—21 KNOTS

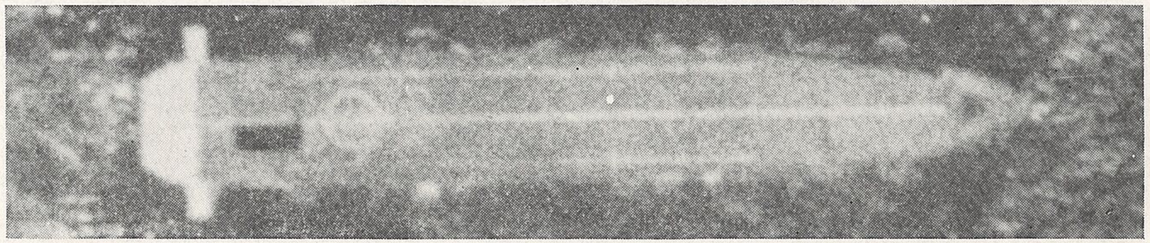




OTAKA CLASS CVE 2-4

DIMENSIONS— 591′ OA x 74′ (PRE-CONVERSION)
22,500 TONS (PRE-CONVERSION)
ARMAMENT— 6-5″(?) AA
AIRCRAFT— 48 PLANES CARRIED
DESIGNED SPEED—23 KNOTS
OTAKA CVE 2 (EX-KASUGA MARU)
UNYO CVE 3 (EX-YAWATA MARU)
CHUYO CVE 4 (EX-NITTA MARU)

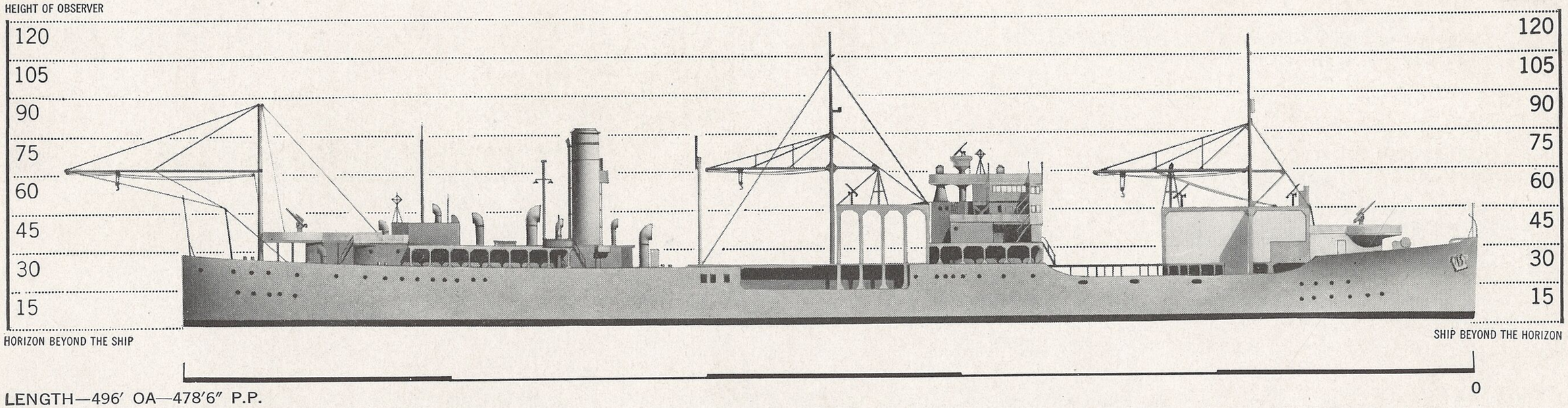
CONVERSION COMPLETED 1941



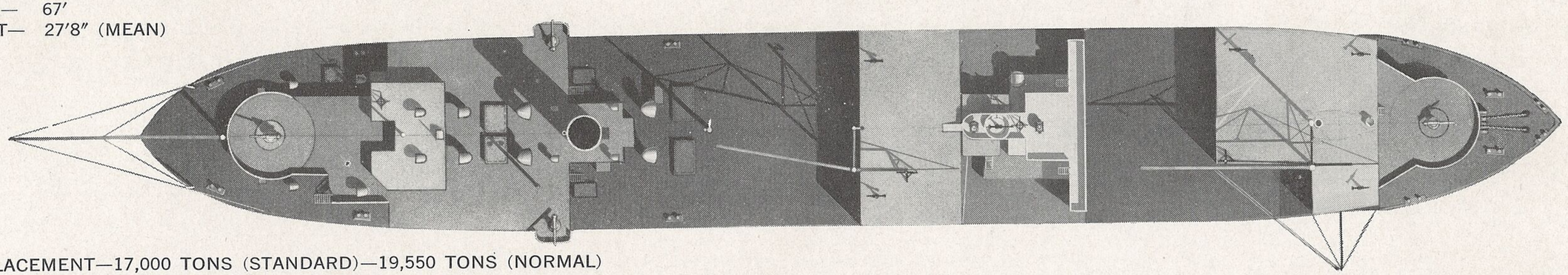
ONI 41-42 RESTRICTED

KAMOI—CVS 2

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943



LENGTH—496′ OA—478′6″ P.P.
BEAM— 67′
DRAFT— 27′8″ (MEAN)



DISPLACEMENT—17,000 TONS (STANDARD)—19,550 TONS (NORMAL)

ARMAMENT

	MAX. ELEV.	RANGE
2–5″5		
2–3″15 A.A.		
9 SEAPLANES		

PROPULSION

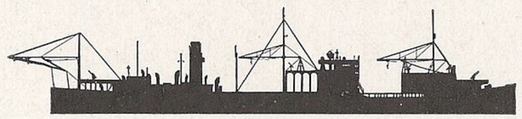
MACHINERY—	G.E. (Curtis) TURBINES AND ELECTRIC DRIVE
BOILERS—	4 YARROW
FUEL—	COAL, 2,500 TONS
DESIGNED HP—	8,000
DESIGNED SPEED—	15 KNOTS
ENDURANCE—	10,000 @ 10 KNOTS
	9,000 @ 15 KNOTS

KTS	RPM
	400
	375
	350
	325
	300
	275
	250
	225
	200
	150
	100
	50

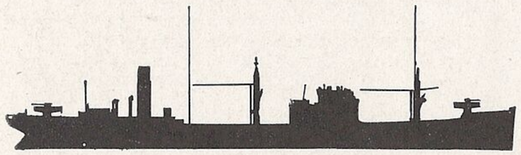
KAMOI—CVS 2

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL, 1943

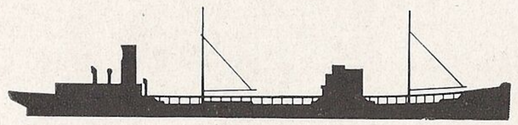
MISTAKEN IDENTITY



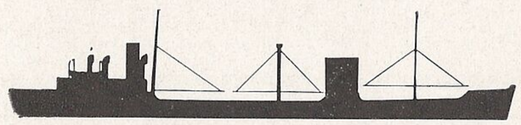
KAMOI—CVS 2



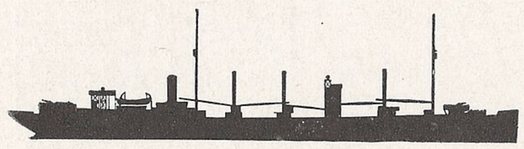
NOTORO—CVS 1



TYPICAL JAPANESE TANKER



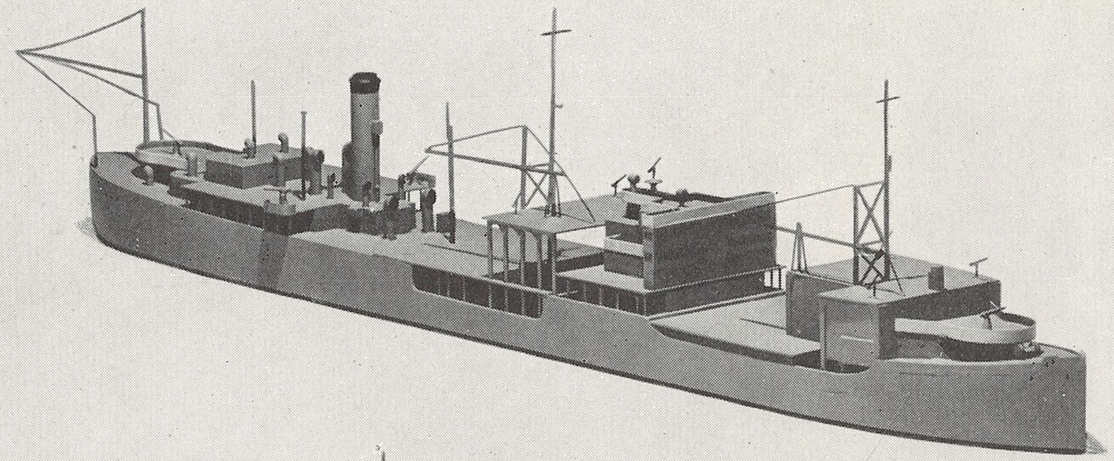
TYPICAL JAPANESE CARGO VESSEL

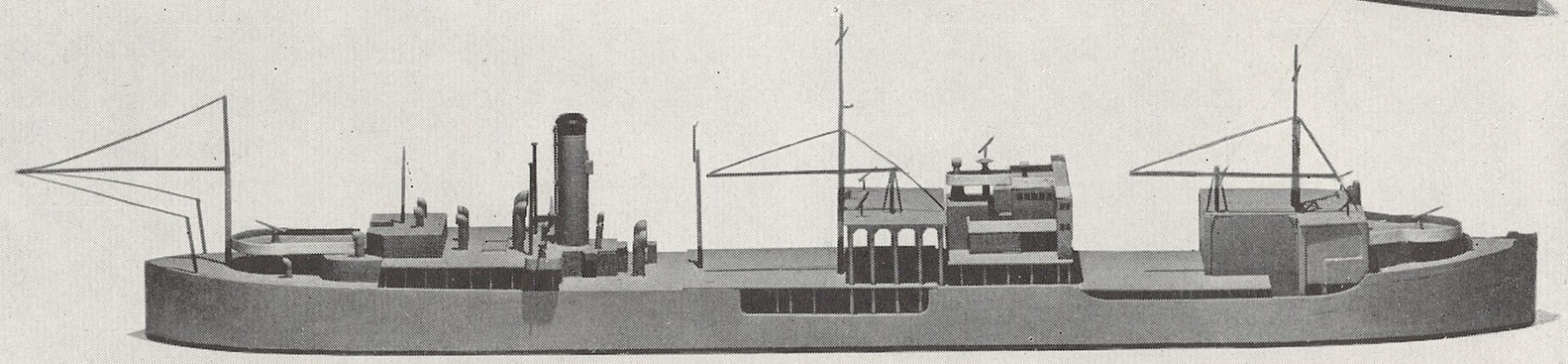


AE—USS NITRO, PYRO

AERIAL VIEWS

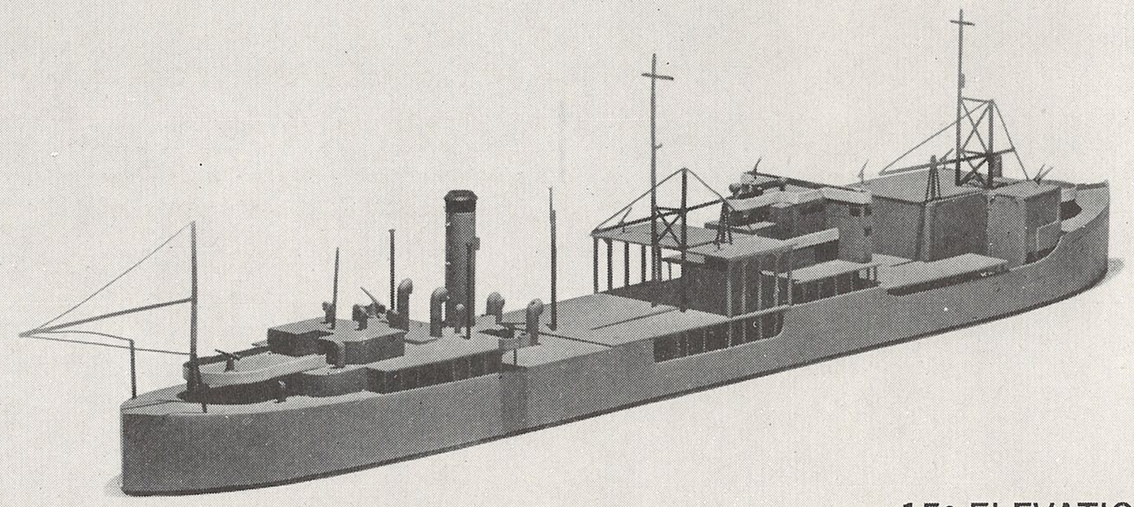
45°





90°

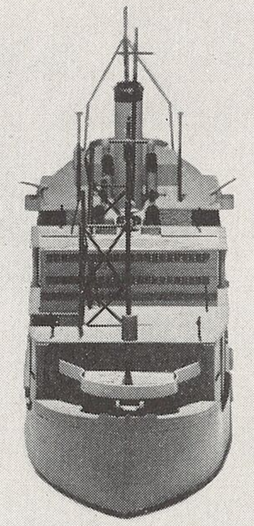
135°



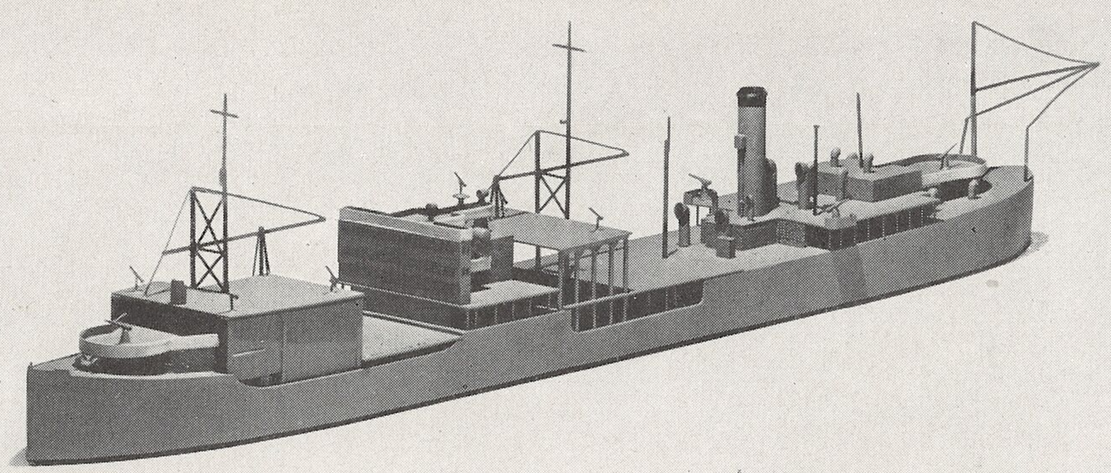
15° ELEVATION

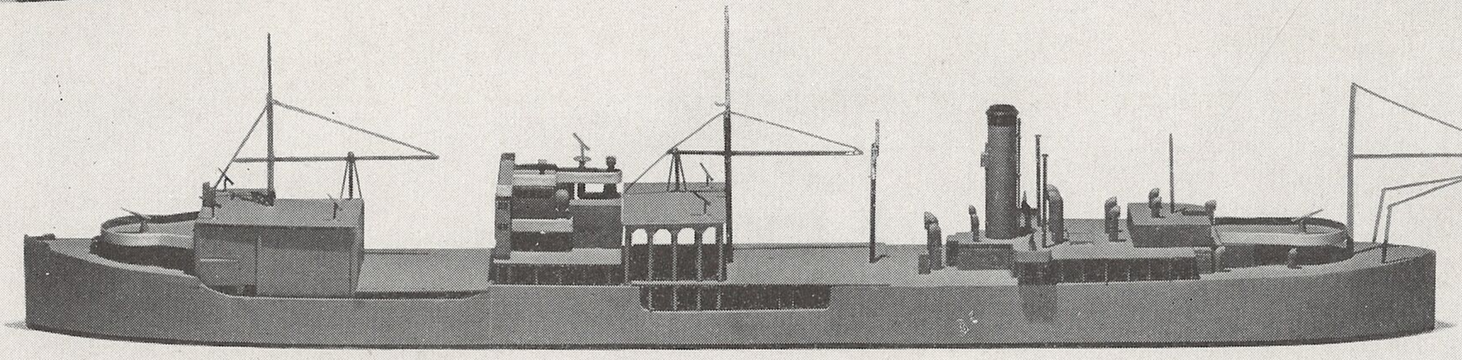
ONI 41-42

0°



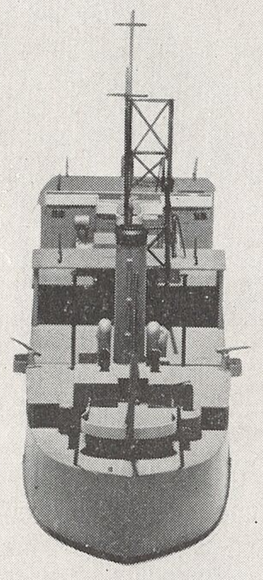
315°

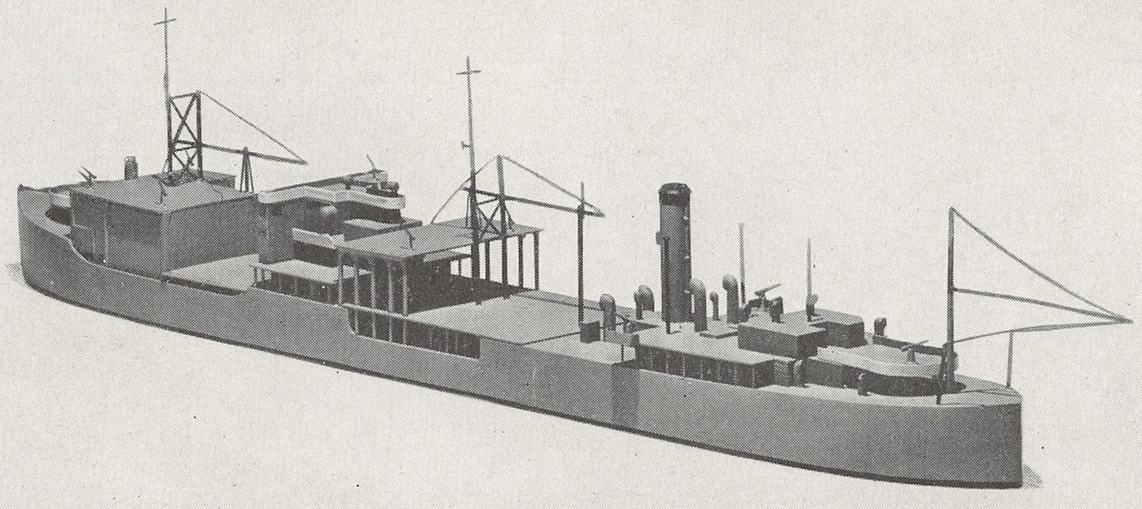




270°

180°





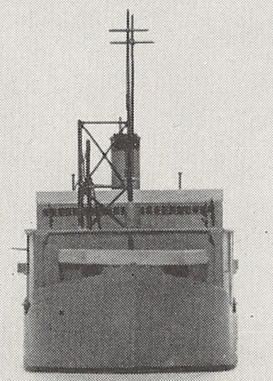
225°

KAMOI—CVS 2

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

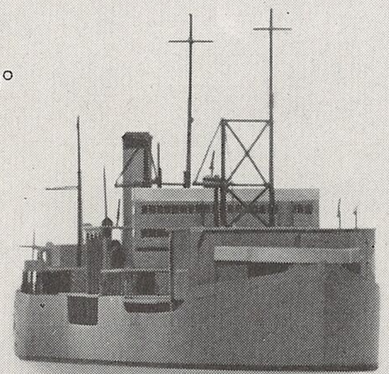
TARGET ANGLES

0°

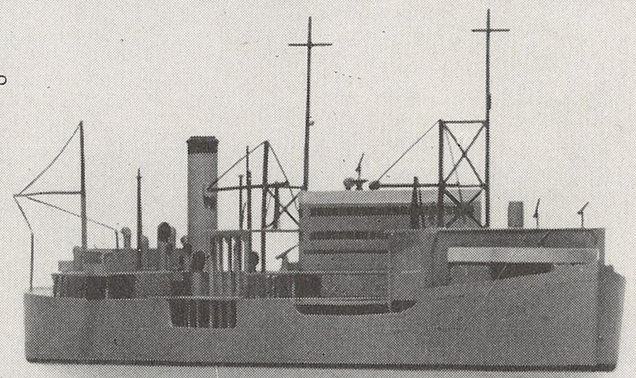


5°

10°



20°



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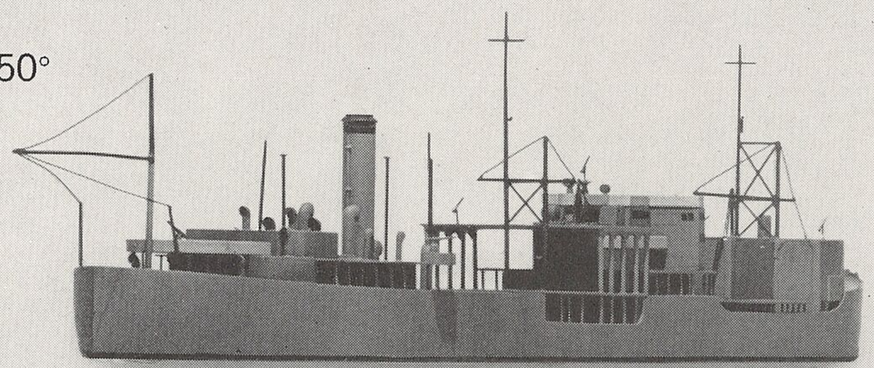

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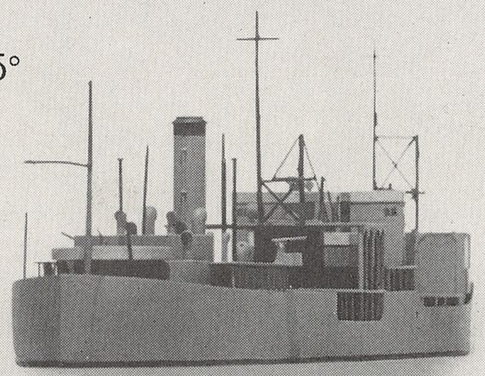

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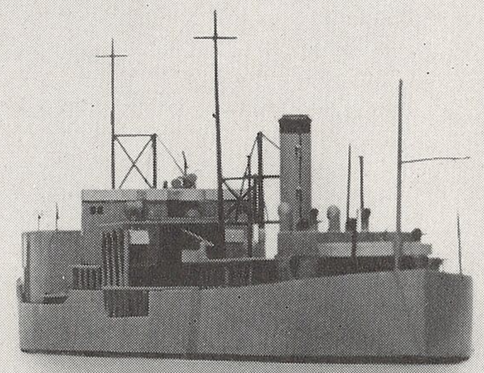

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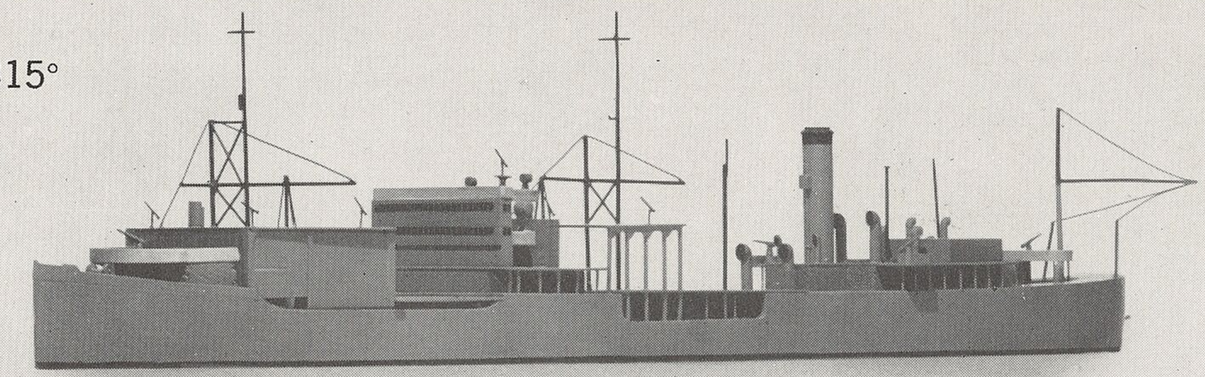

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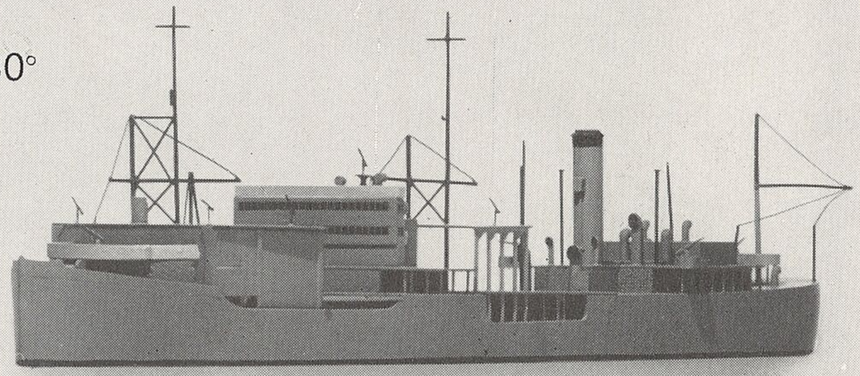

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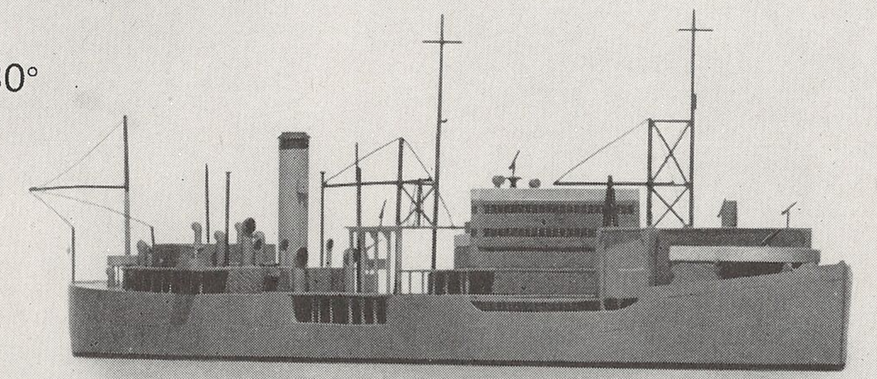

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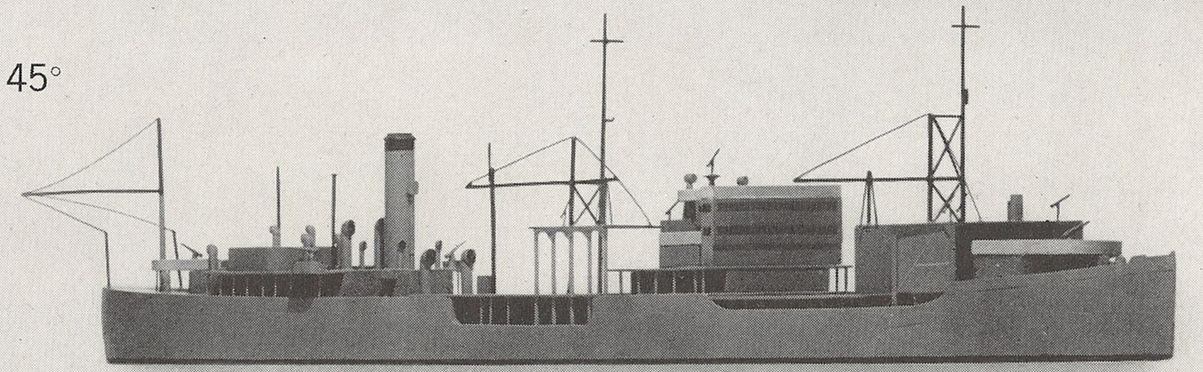

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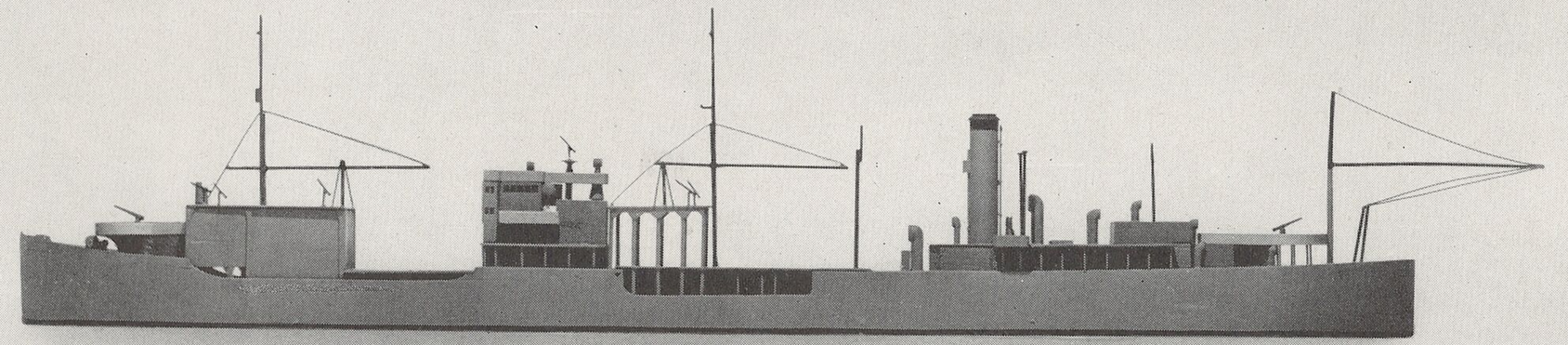

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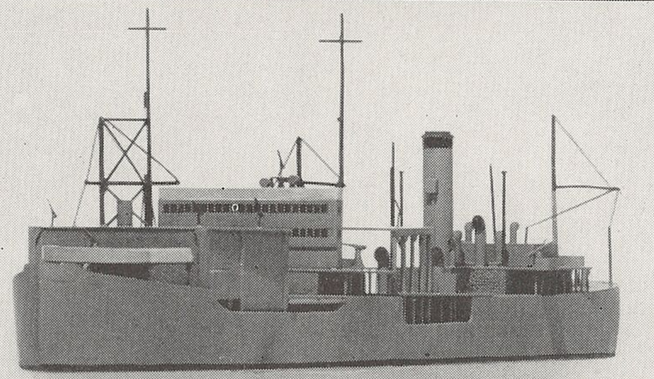

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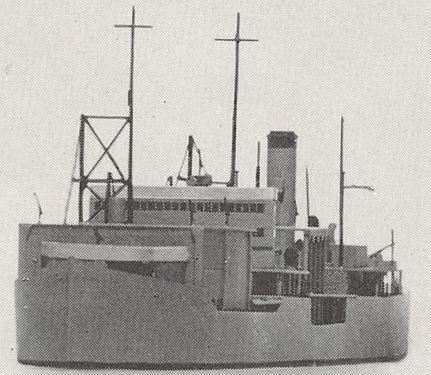

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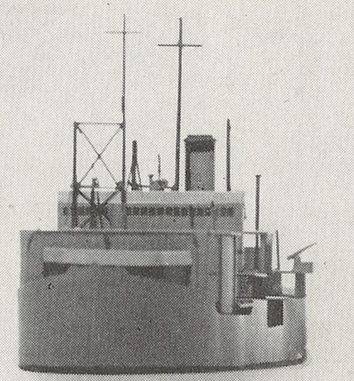


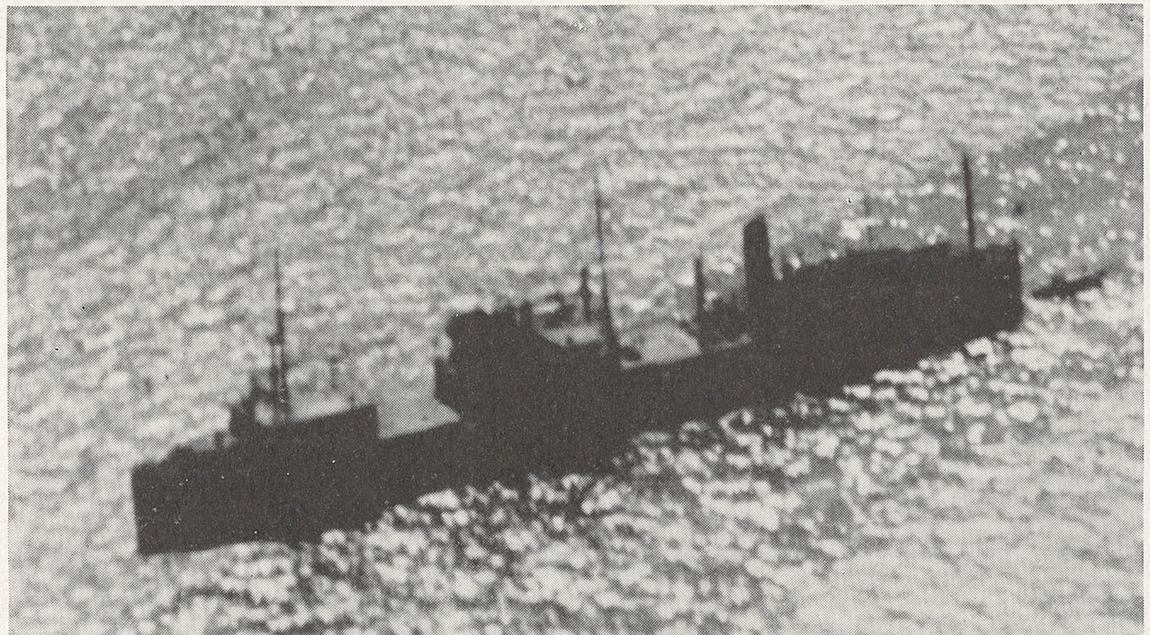
KAMOI—CVS 2

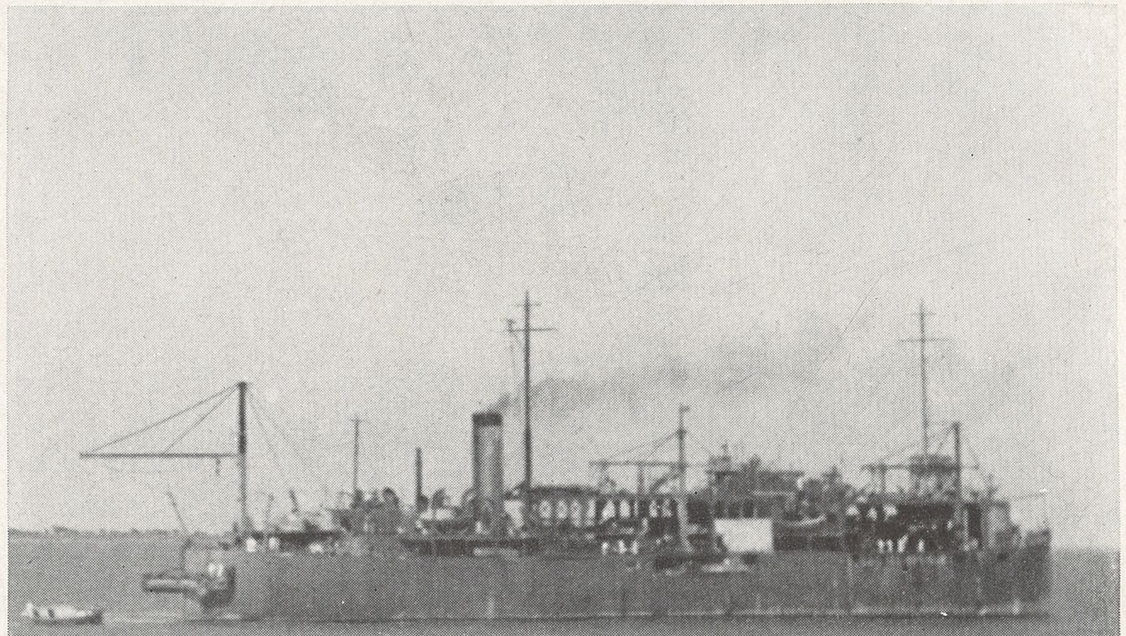
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

BUILT FOR JAPAN BY THE N. Y. SHIPBUILDING CO. AS A TANKER.
COMPLETED 6/8/22, CONVERTED TO CVS—1932-33, MODERNIZED 1941

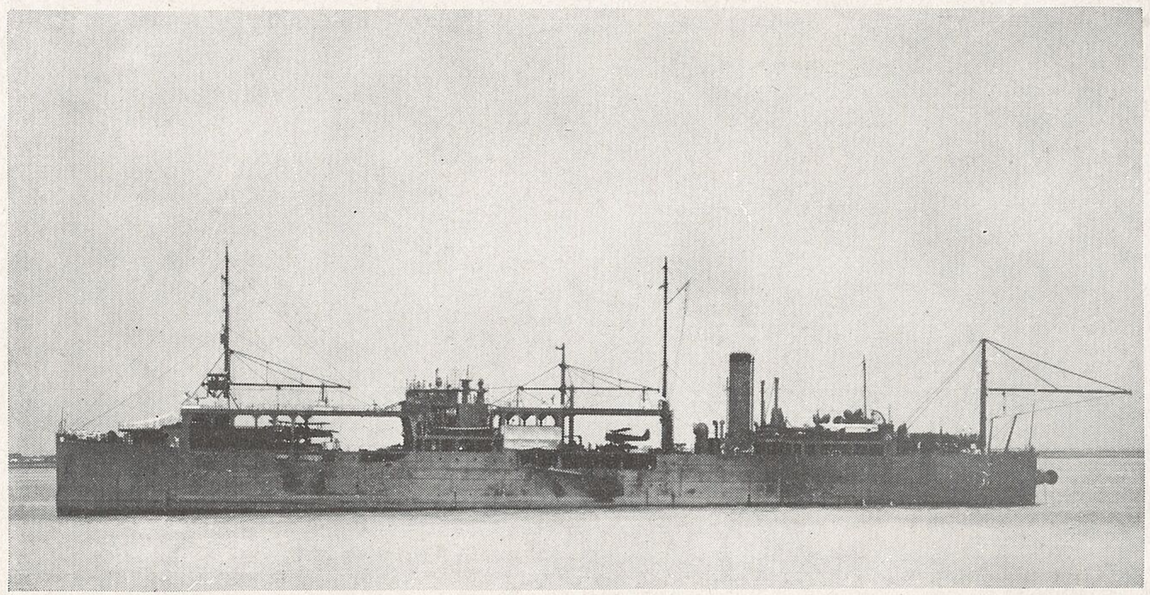
ONI 41-42

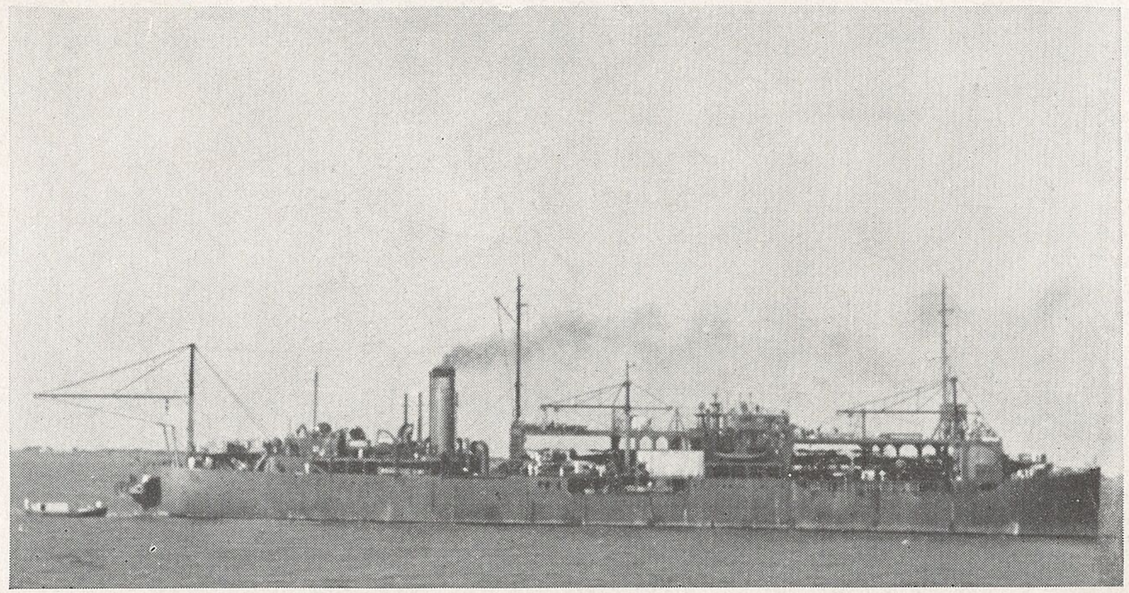
RESTRICTED





8/26/37 SHOWING OLD RIG

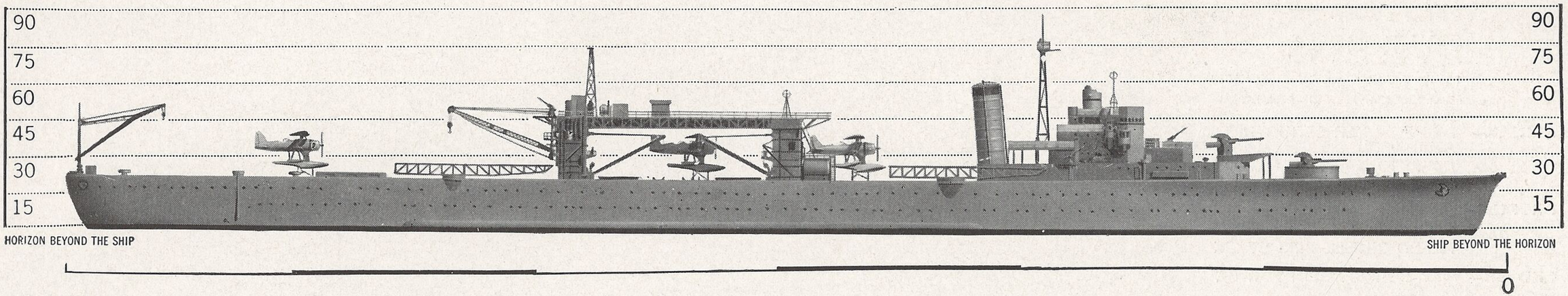




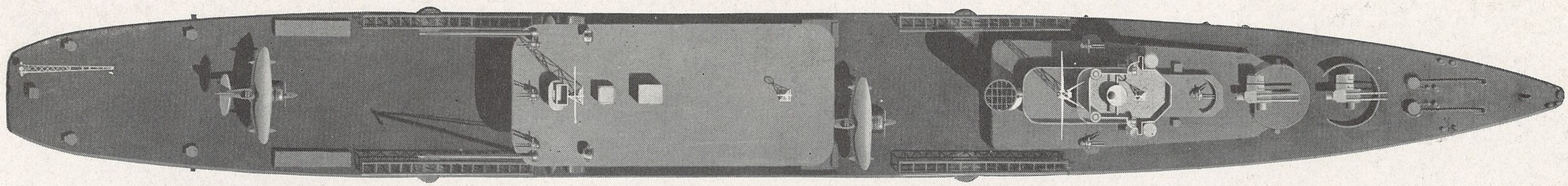
ONI 41-42 RESTRICTED

CHITOSE CLASS—CVS 3, 4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943



LENGTH—597′5″ OA
BEAM— 61′8″
DRAFT— 19′ (MAXIMUM)



DISPLACEMENT—9,000 TONS (STANDARD)

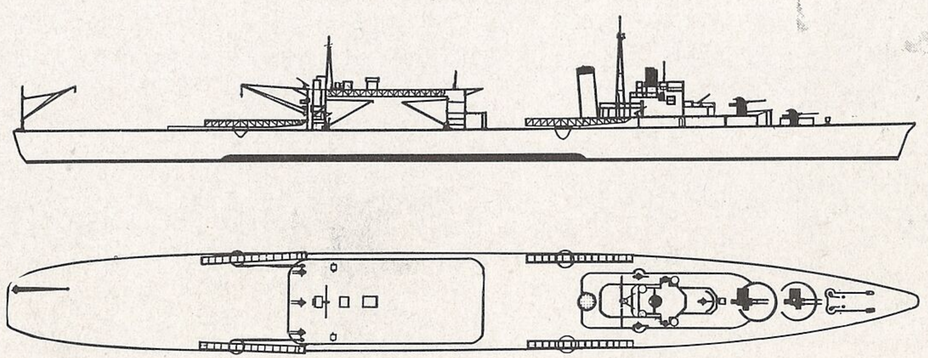
ARMAMENT

	MAX. ELEV.	MAX. RANGE (HORIZONTAL)	MAX. RANGE (VERTICAL)
4–5″ (50) AA	85°	19,000 YARDS	33,000 FEET

12 AAMG (TWINS)
4 CATAPULTS; 16 SCOUT OBSERVATION

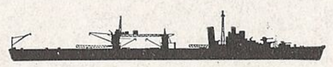
PROPULSION

MACHINERY— GEARED TURBINES
BOILERS— TWO KAMPONS
FUEL— OIL, 1,000 TONS
DESIGNED H. P.— 15,000
DESIGNED SPEED—20 KNOTS
ENDURANCE— 11,000 MILES @ 10 KNOTS
2,700 MILES @ 20 KNOTS



CHITOSE CLASS—

CHITOSE—CVS 3



CHIYODA—CVS 4

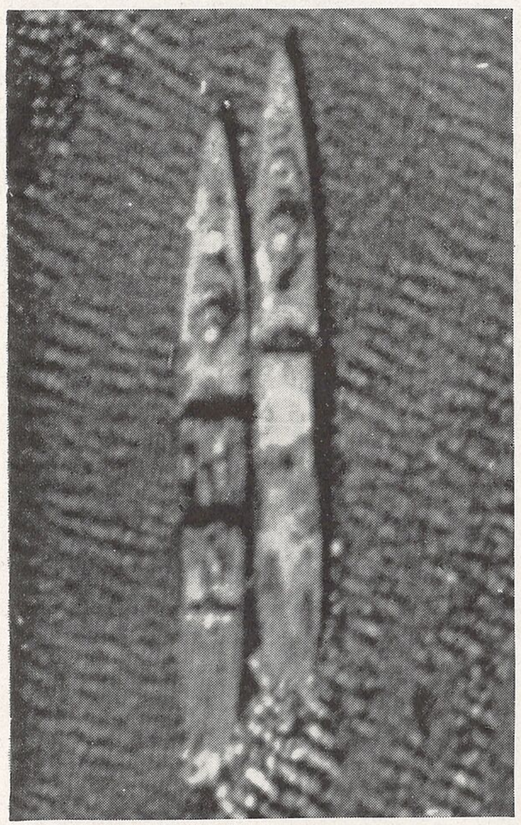
CHITOSE CLASS— CVS 3, 4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL, 1943

AERIAL— DECKED-OVER STRUCTURE AMIDSHIPS
(MIZUHO HAS SEPARATED STRUCTURES)

PROFILE— FLUSH HULL
TRIPOD MASTS
RAKED SINGLE PIPE STACK

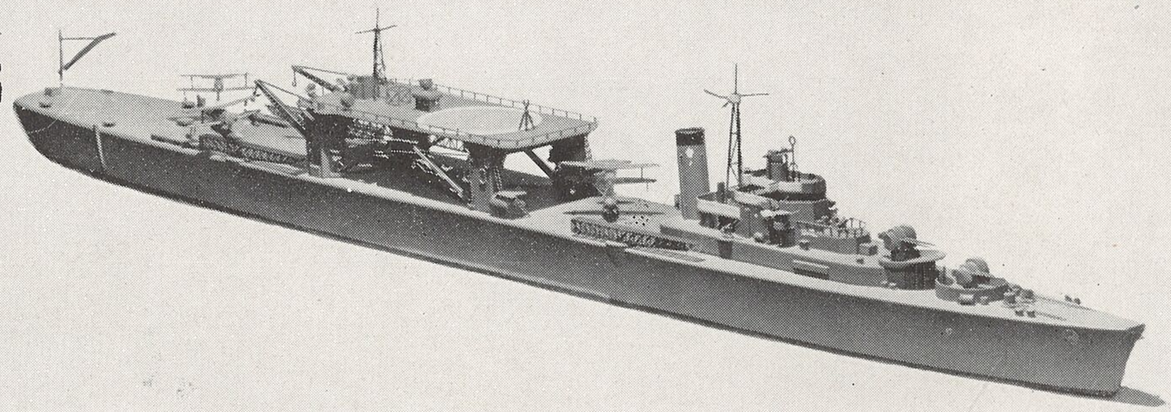
END ON— MAY BE MISTAKEN FOR CA OR CL

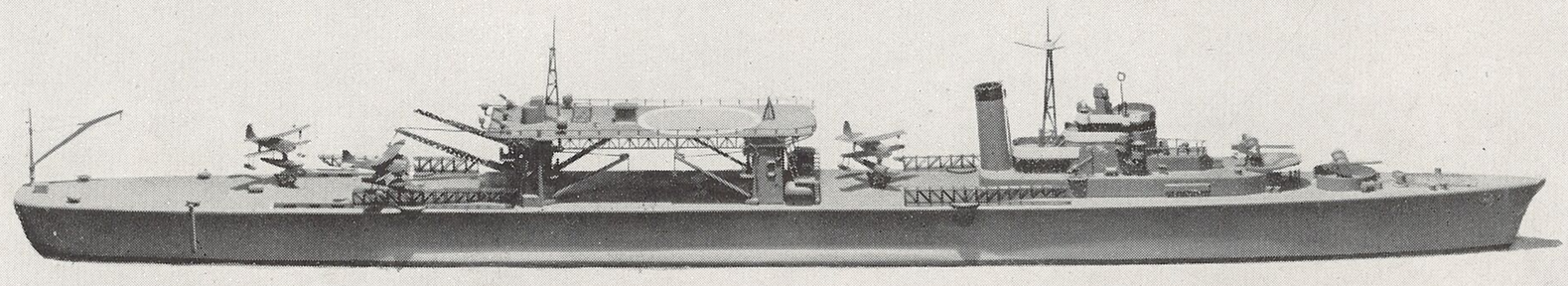


MIZUHO ↑ ↑ CHITOSE

AERIAL VIEWS

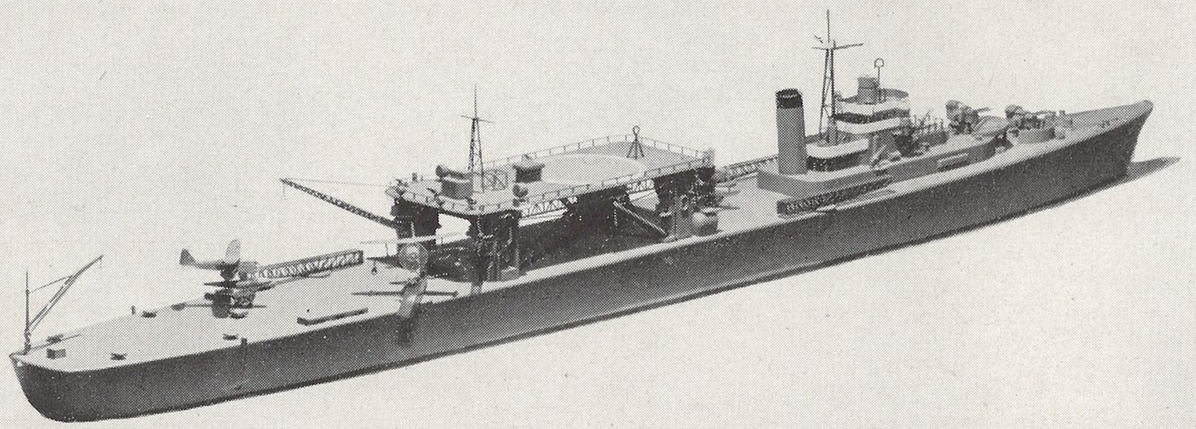
45°





90°

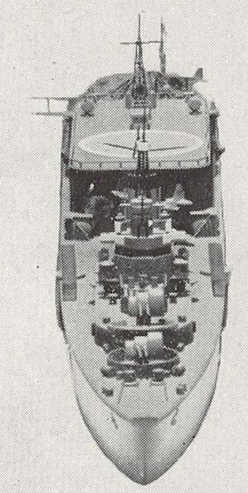
135°

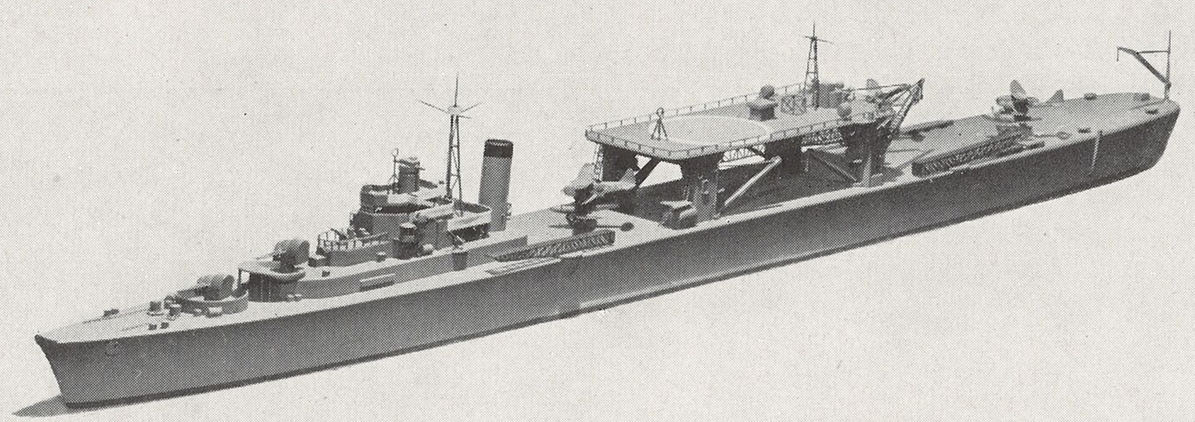


15° ELEVATION

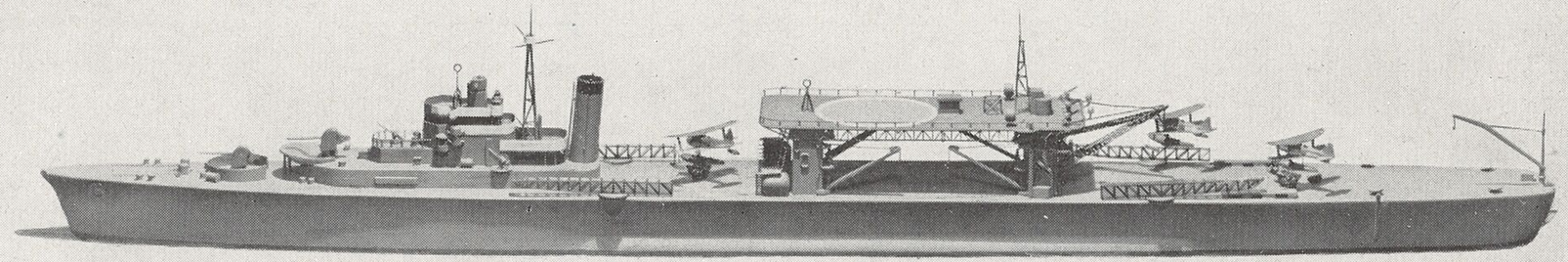
ONI 41-42

0°



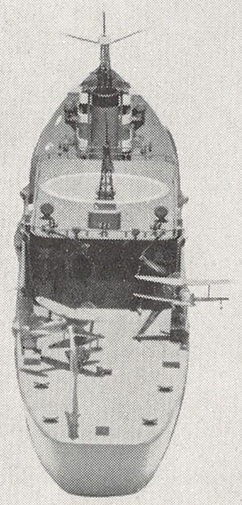


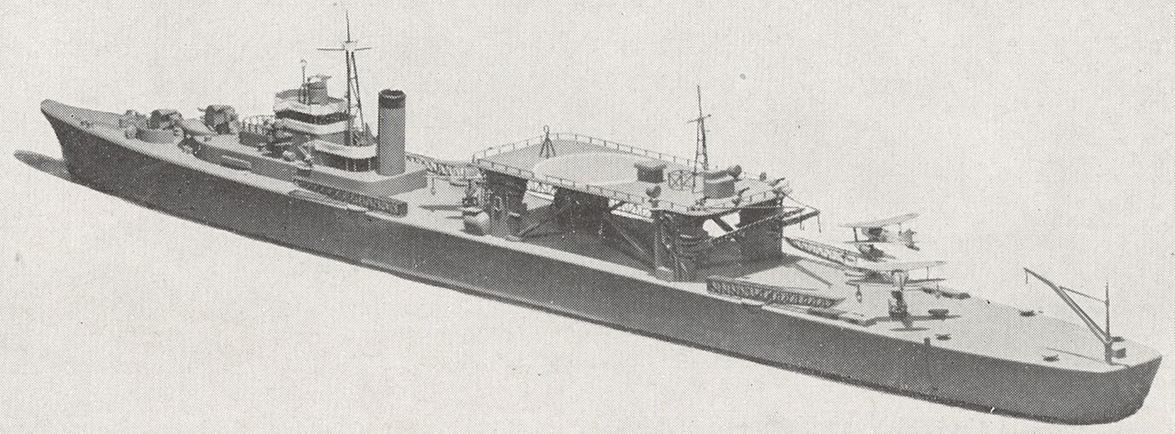
315°



270°

180°





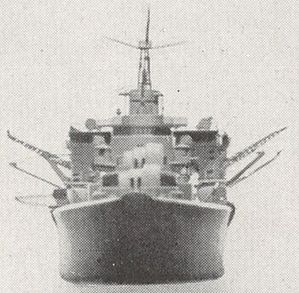
225°

CHITOSE CLASS—CVS 3, 4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

TARGET ANGLES

0°



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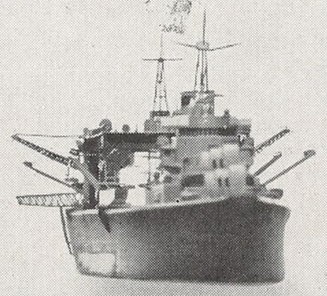
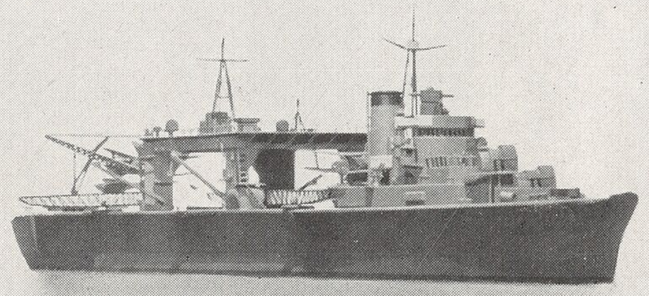


10°

20°



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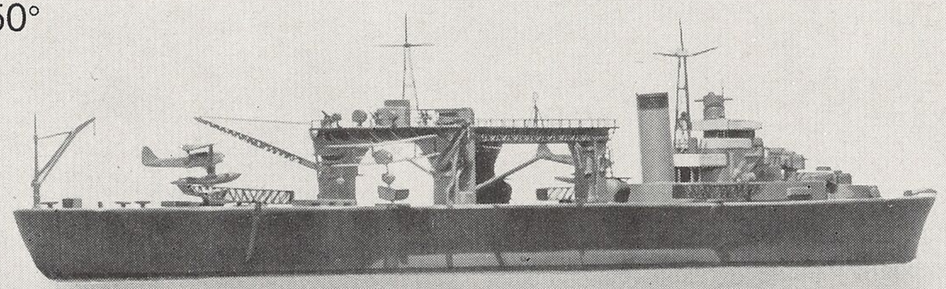
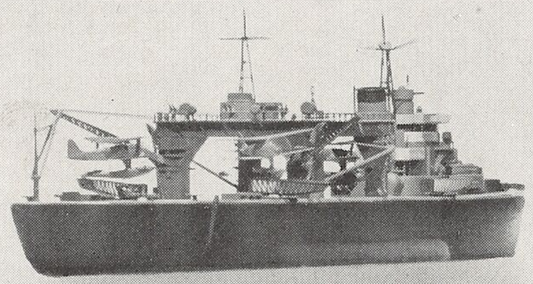


165°



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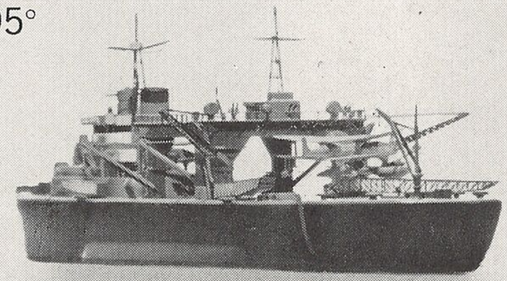
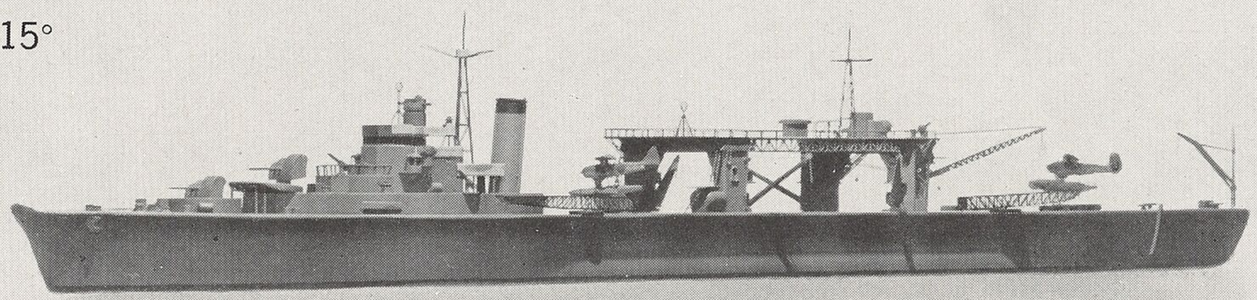
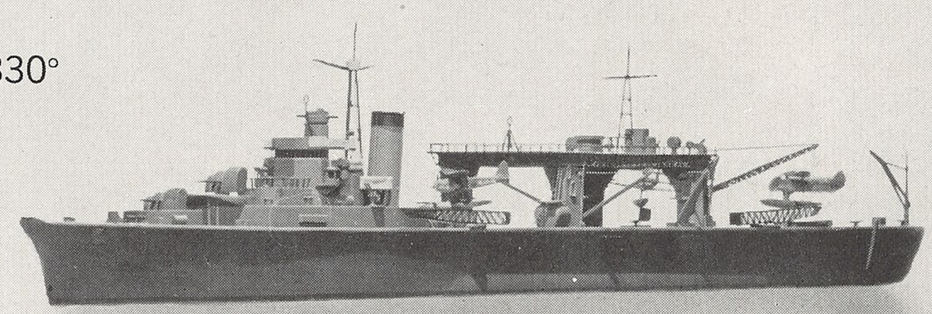


315°

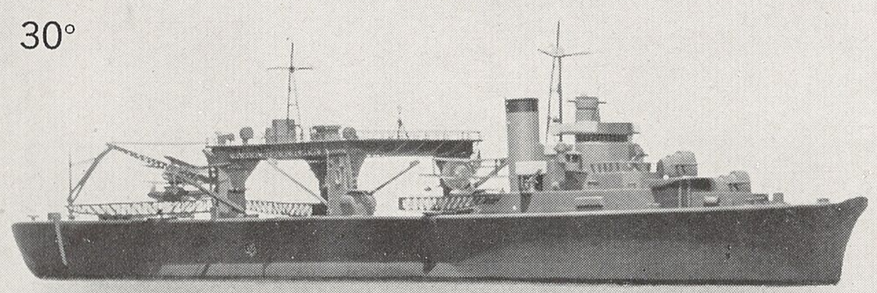


330°



KNOTS	RPM	KNOTS	RPM	KNOTS	RPM	KNOTS	RPM
	400		300		200		100
	375		275		175		75
	350		250		150		50
	325		225		125		25

30°



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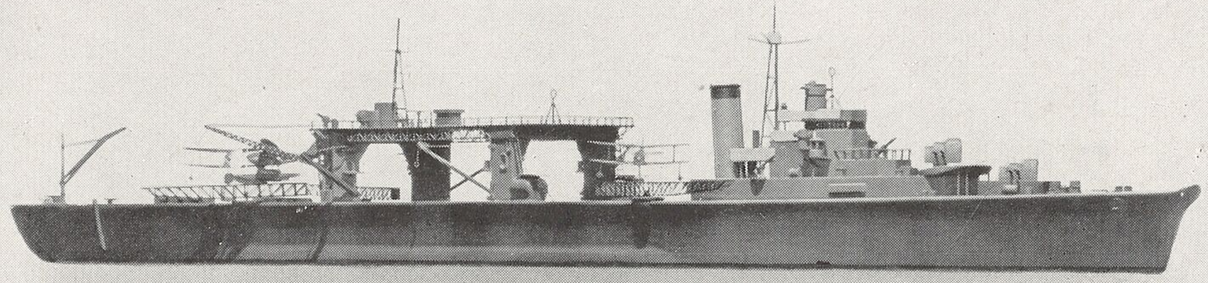
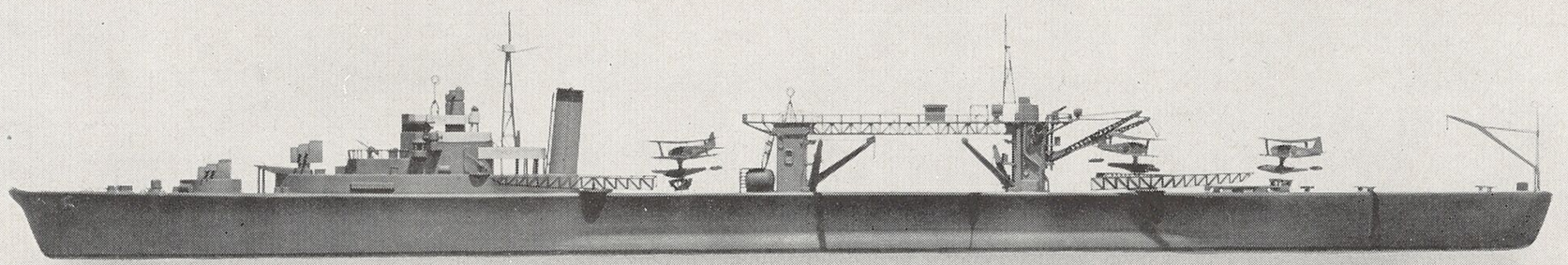
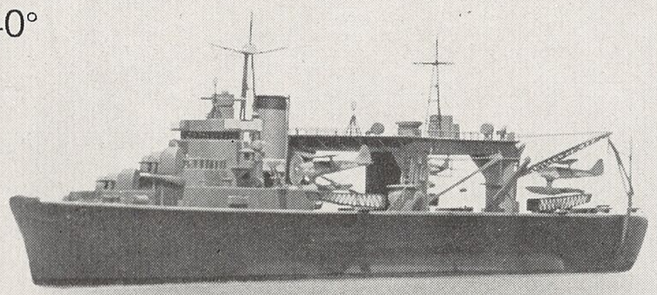


270°

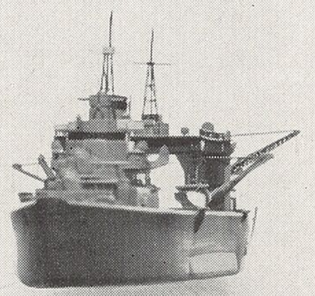


340°



350°

355°



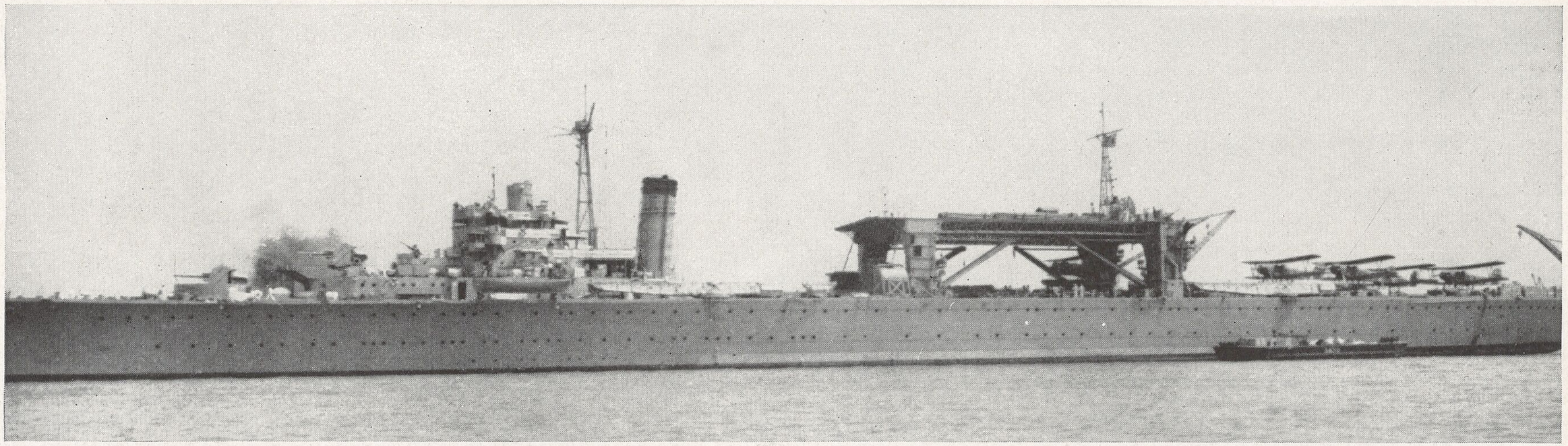
CHITOSE CLASS—CVS 3, 4

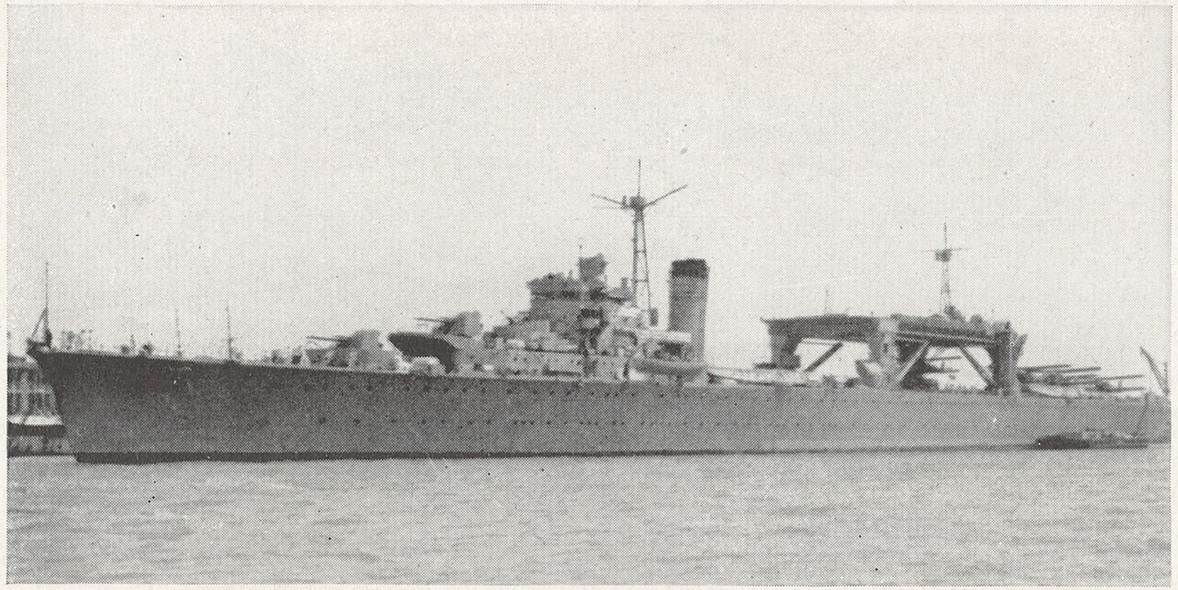
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL, 1943

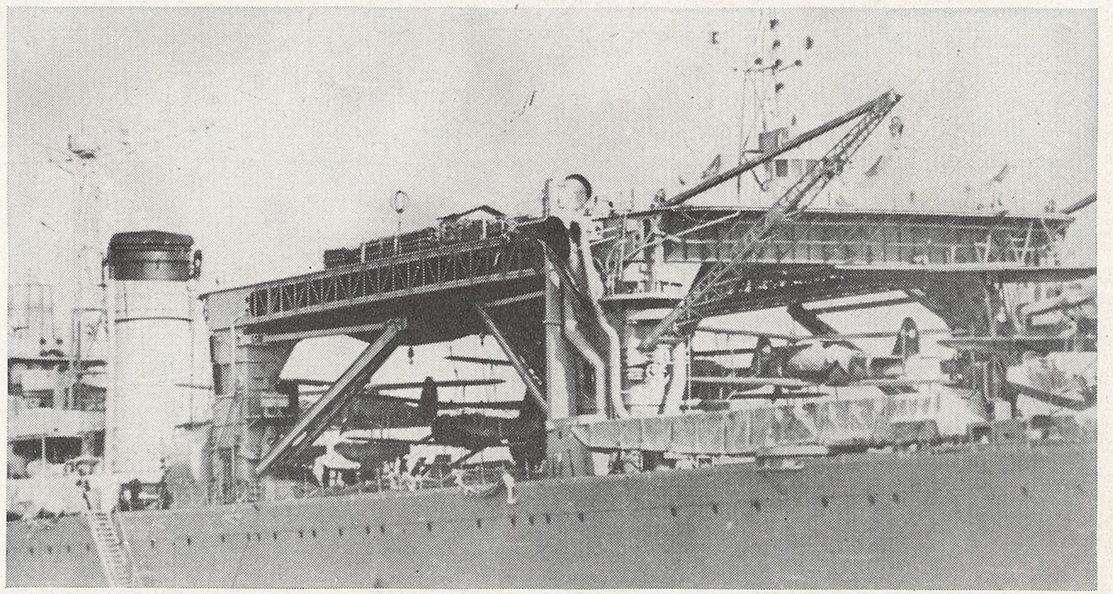
	BEGUN	COMPLETED
CHITOSE—CVS 3	11/26/34	1/?/38
CHIYODA—CVS 4	12/14/36	1938

ONI 41-42

RESTRICTED



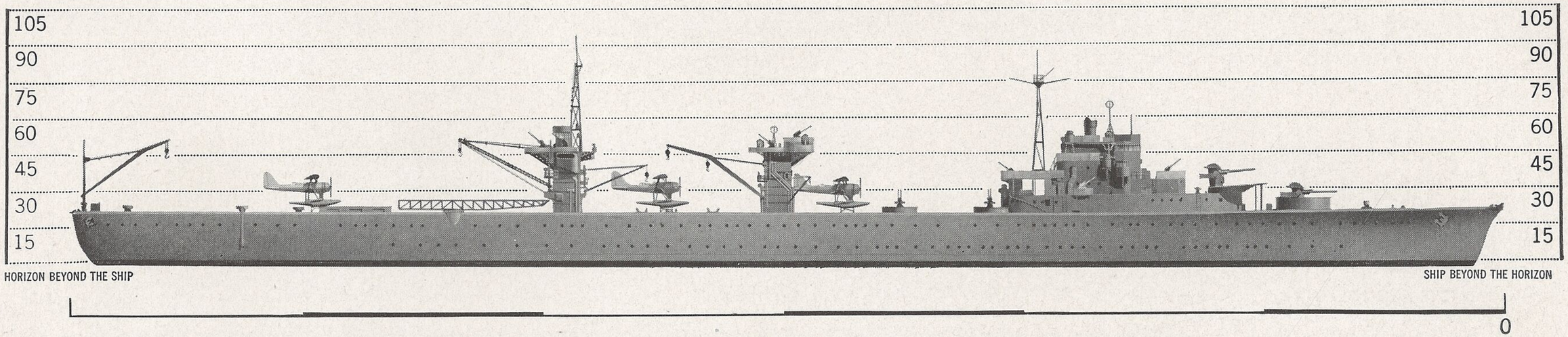




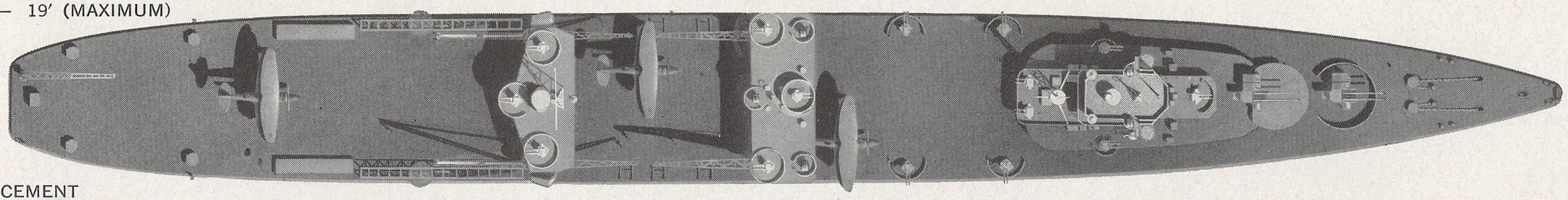
ONI 41-42 RESTRICTED

MIZUHO CLASS—CVS 5-7

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943



LENGTH—597′6″ OA
BEAM— 61′8″
DRAFT— 19′ (MAXIMUM)



DISPLACEMENT
9,000 TONS (STANDARD)

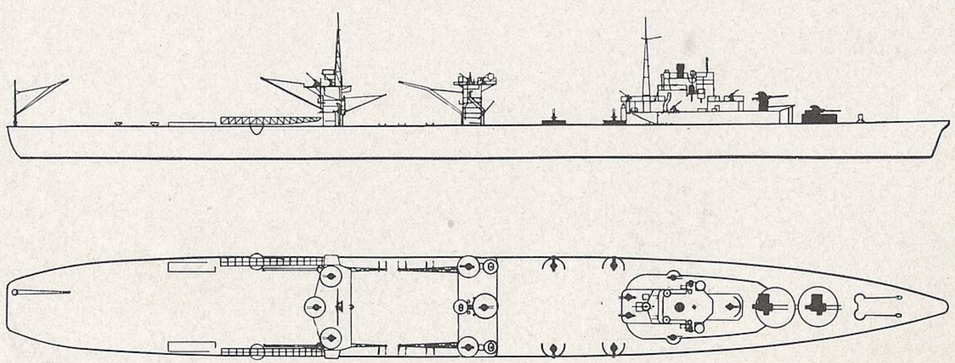
ARMAMENT

	MAX. ELEV.	MAX. RANGE (HORIZONTAL)	MAX. RANGE (VERTICAL)
4-5″ (50) AA TWINS	85°	19,000 YARDS	33,000 FEET

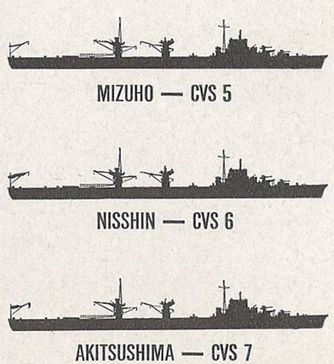
12 AAMG TWINS
4 CATAPULTS, 20 SCOUT OBSERVATION

PROPULSION

MACHINERY— GEARED TURBINES
BOILERS— TWO KAMPONS
FUEL— OIL, 1,000 TONS
DESIGNED HP— 15,000
DESIGNED SPEED—20 KNOTS
ENDURANCE— 11,000 MILES @ 10 KNOTS
2,700 MILES @ 20 KNOTS



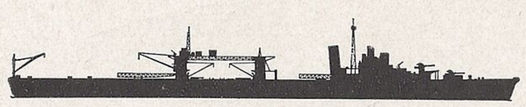
MIZUHO CLASS



MIZUHO CLASS CVS 5-7

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL, 1943

MISTAKEN IDENTITY

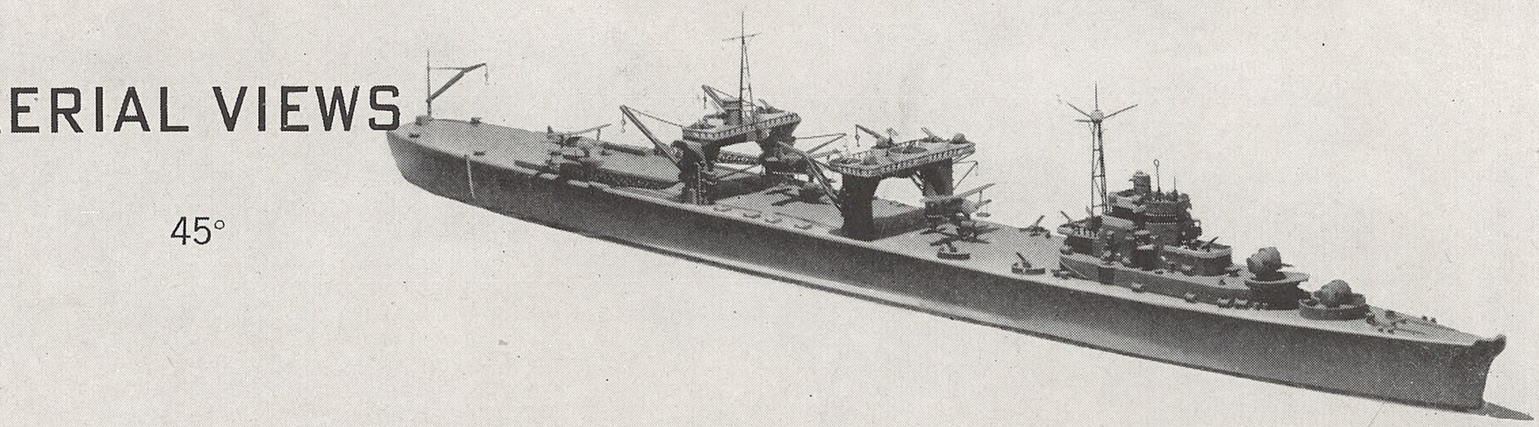


CHITOSE CLASS—CVS 3-4

MIZUHO CLASS—CVS 5-7

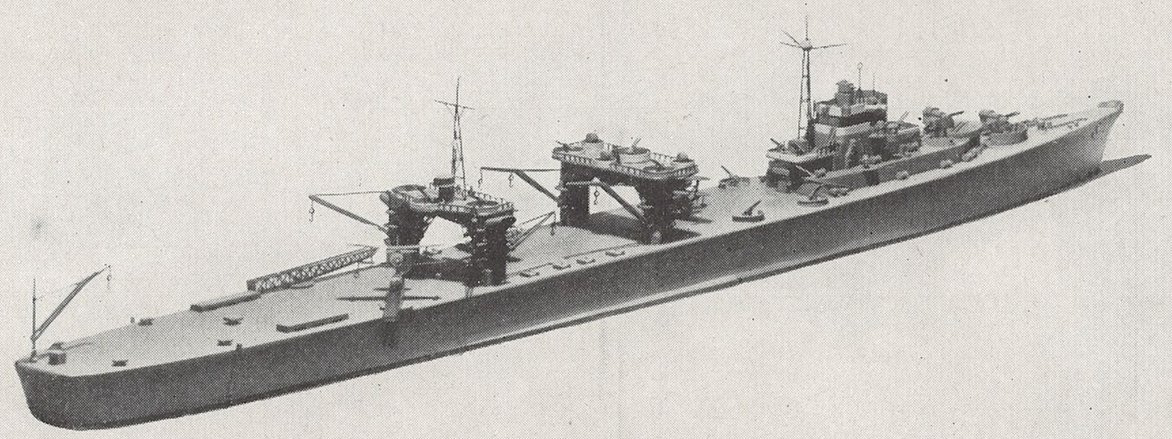
AERIAL VIEWS

45°



90°

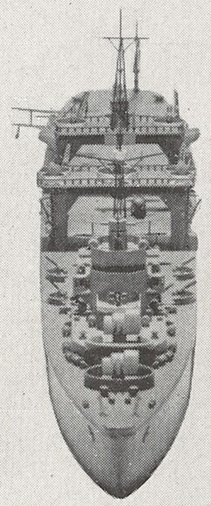
135°



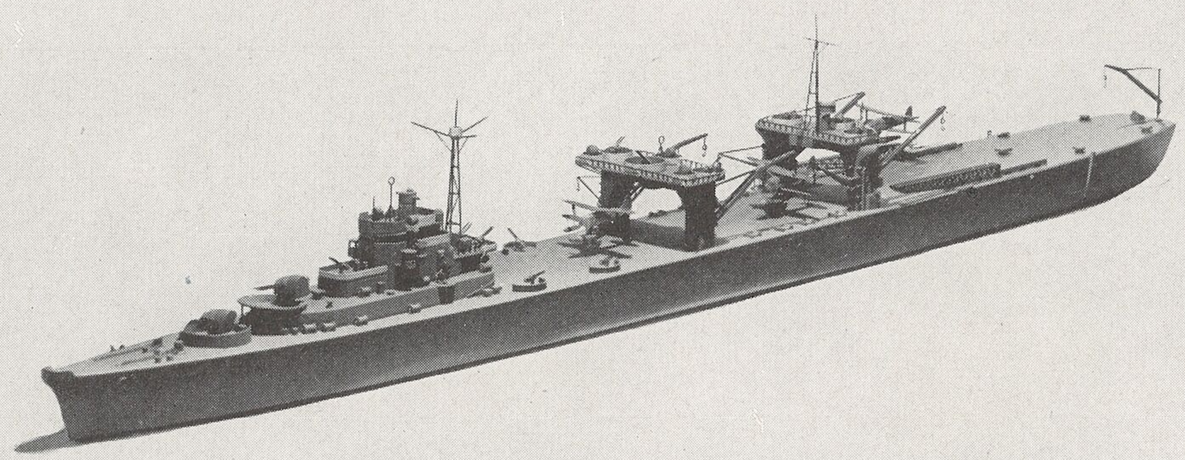
15° ELEVATION

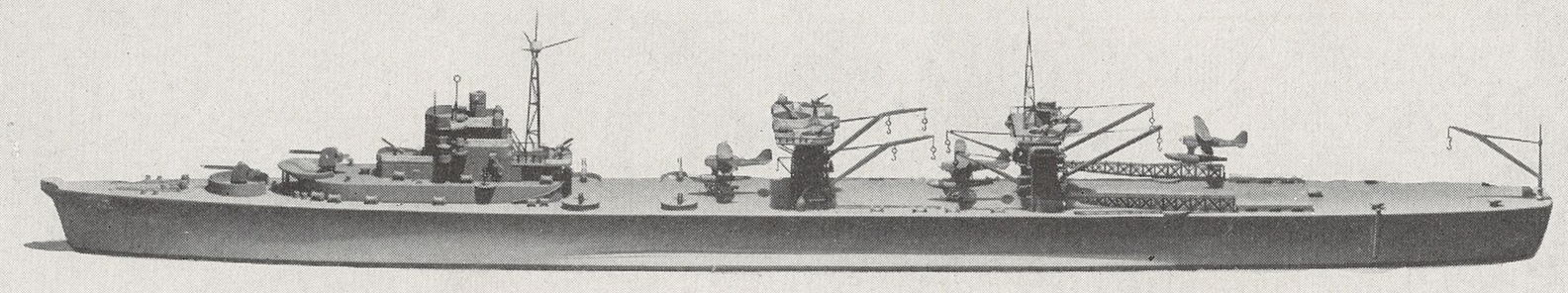
ONI 41-42

0°



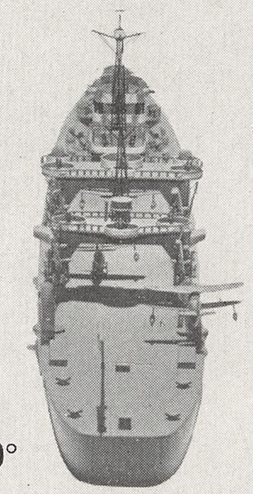
315°

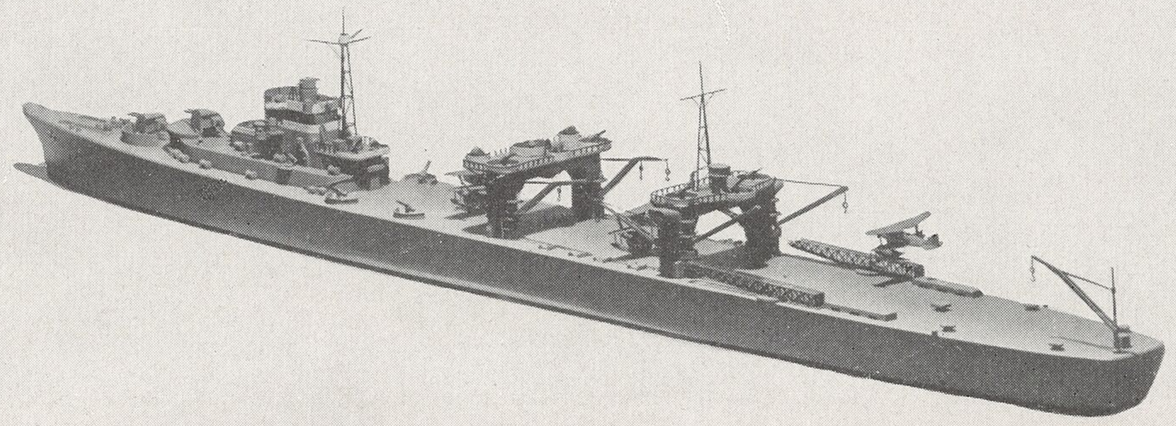




270°

180°





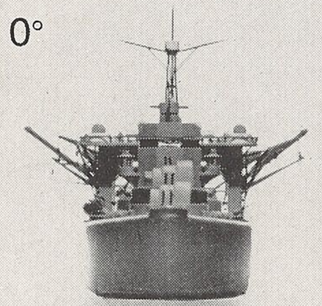
225°

MIZUHO CLASS—CVS 5-7

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

TARGET ANGLES

0°



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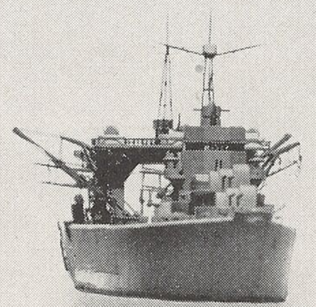
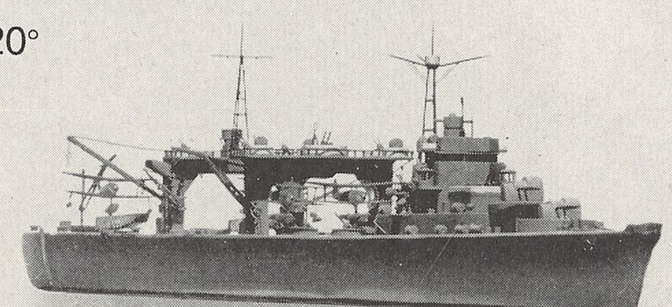
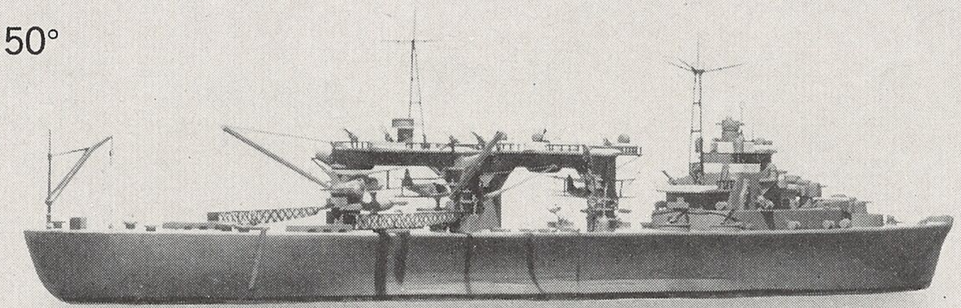


10°

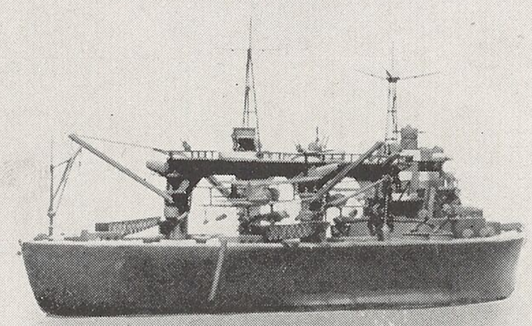
20°



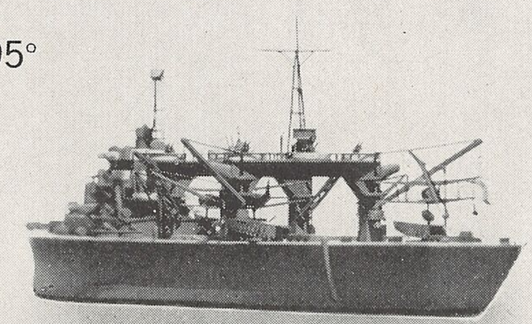
150°



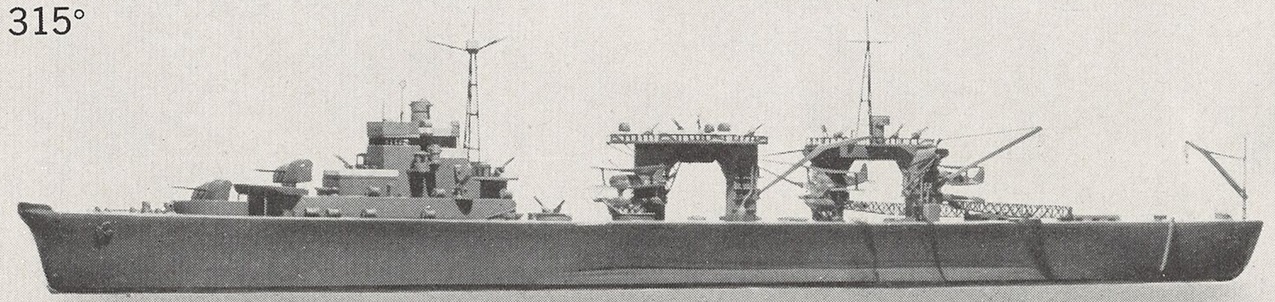
165°



195°



315°



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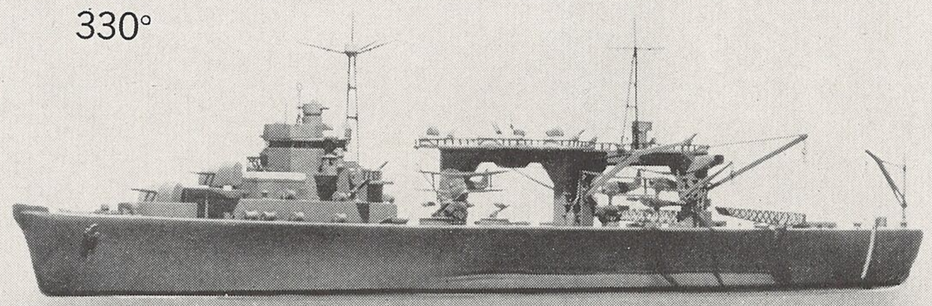


KNOTS	RPM
	400
	375
	350
	325

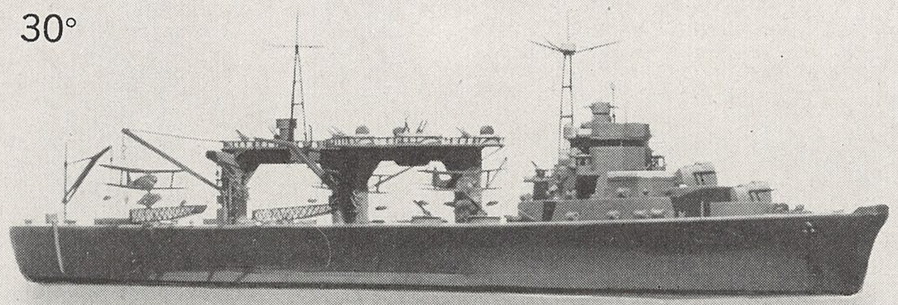
KNOTS	RPM
	300
	275
	250
	225

KNOTS	RPM
	200
	175
	150
	125

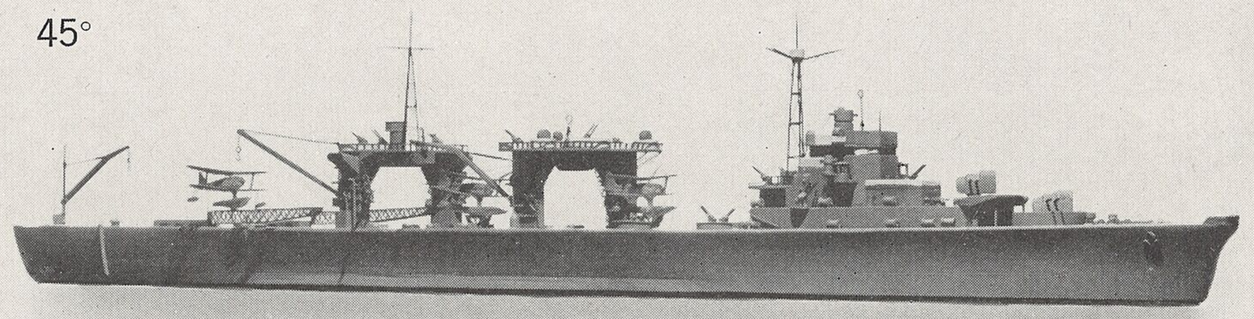
KNOTS	RPM
	100
	75
	50
	25

ONI 41-42

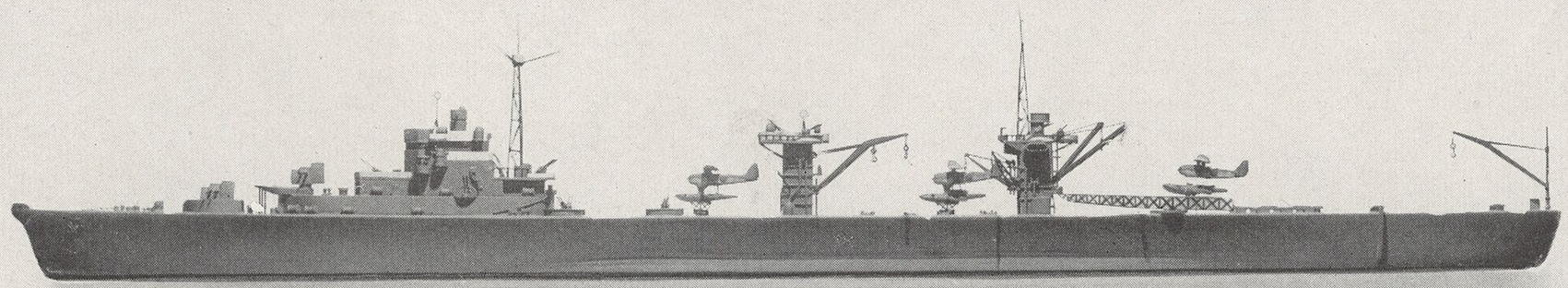
30°



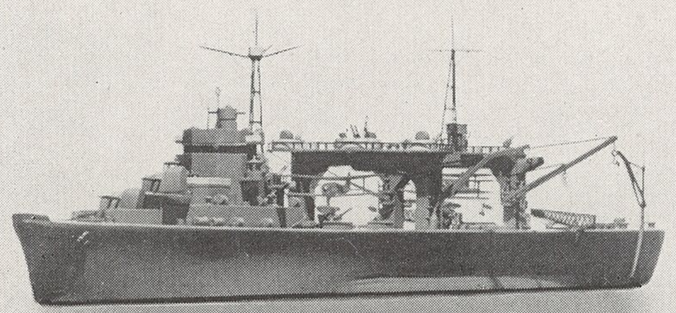
45°



270°



340°



350°

355°

MIZUHO CLASS—CVS 5-7

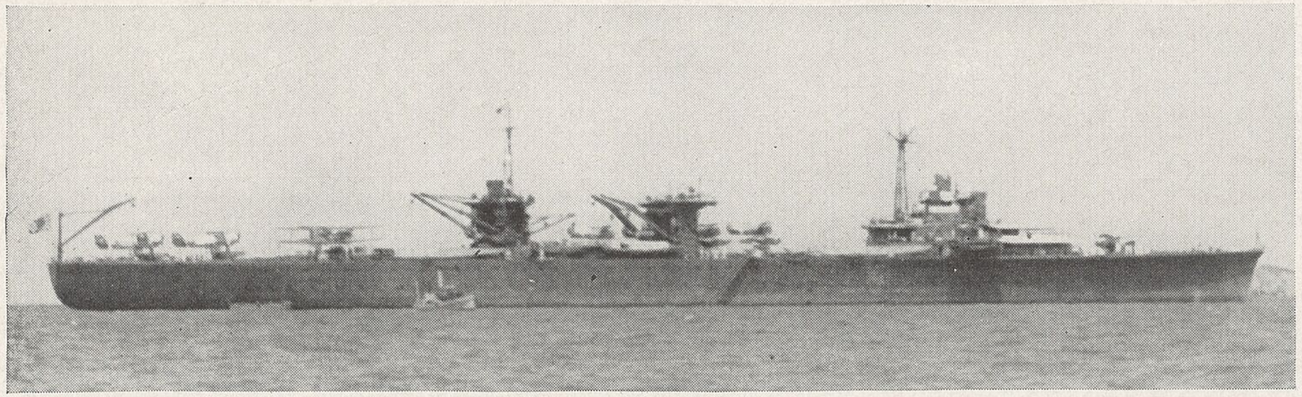
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

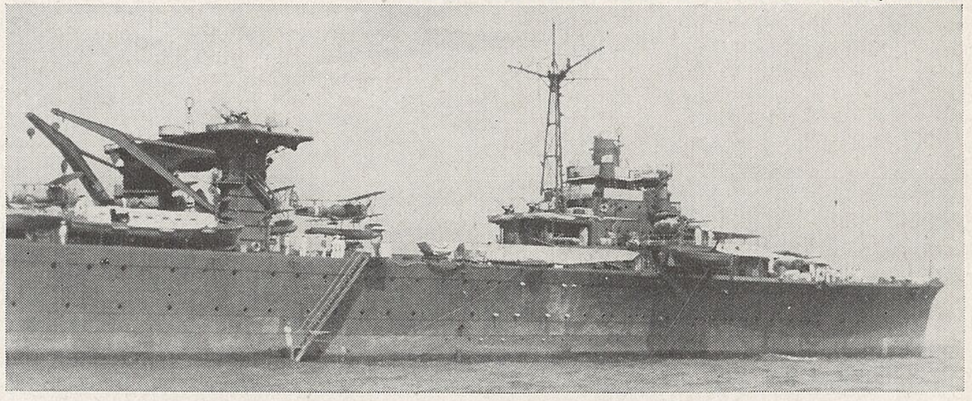
		BEGUN	COMPLETED
MIZUHO—	CVS5	1937	2/25/39
NISSHIN—	CVS6	1937	1941
AKITSUSHIMA—	CVS7	BELIEVED BEGUN 1940	1942

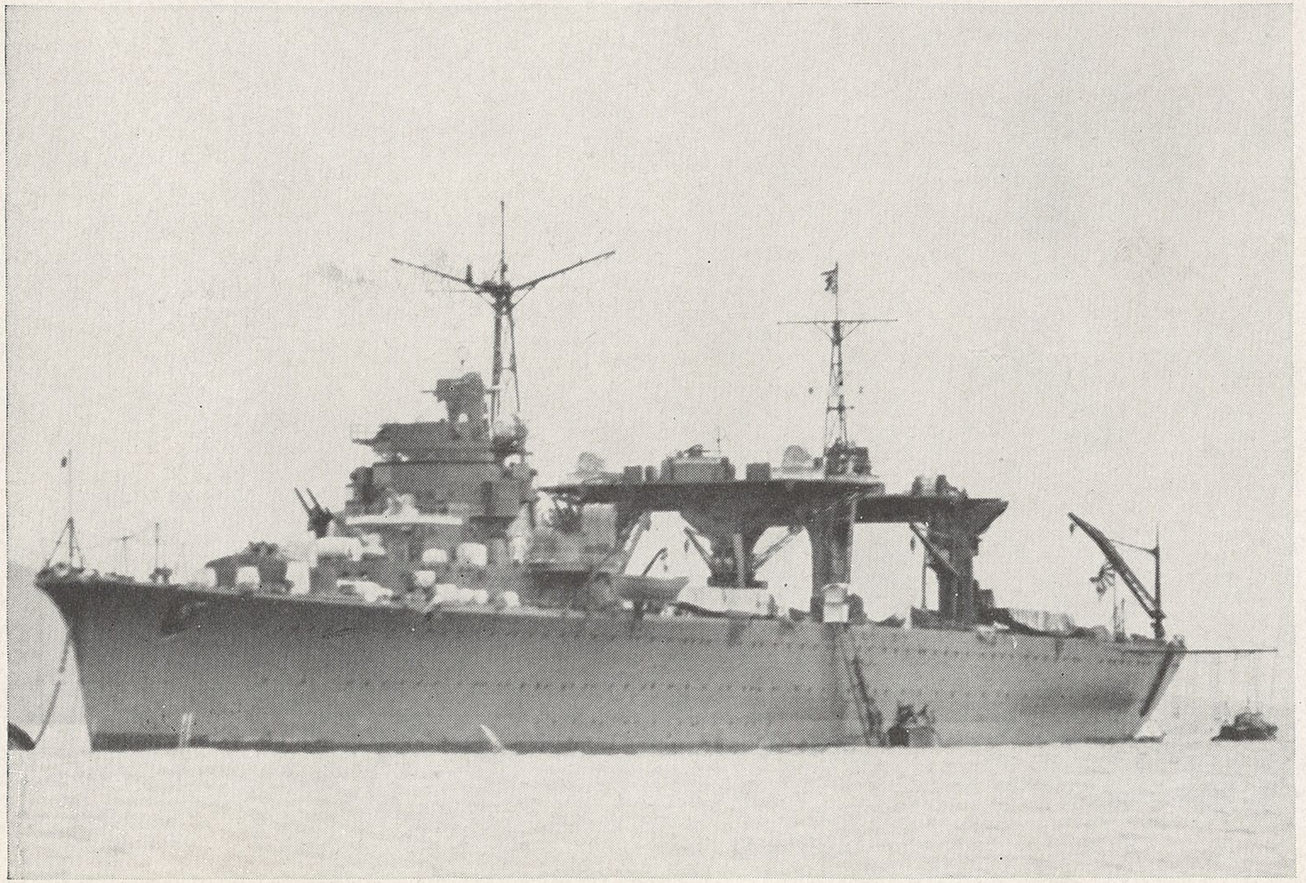
ONI 41-42

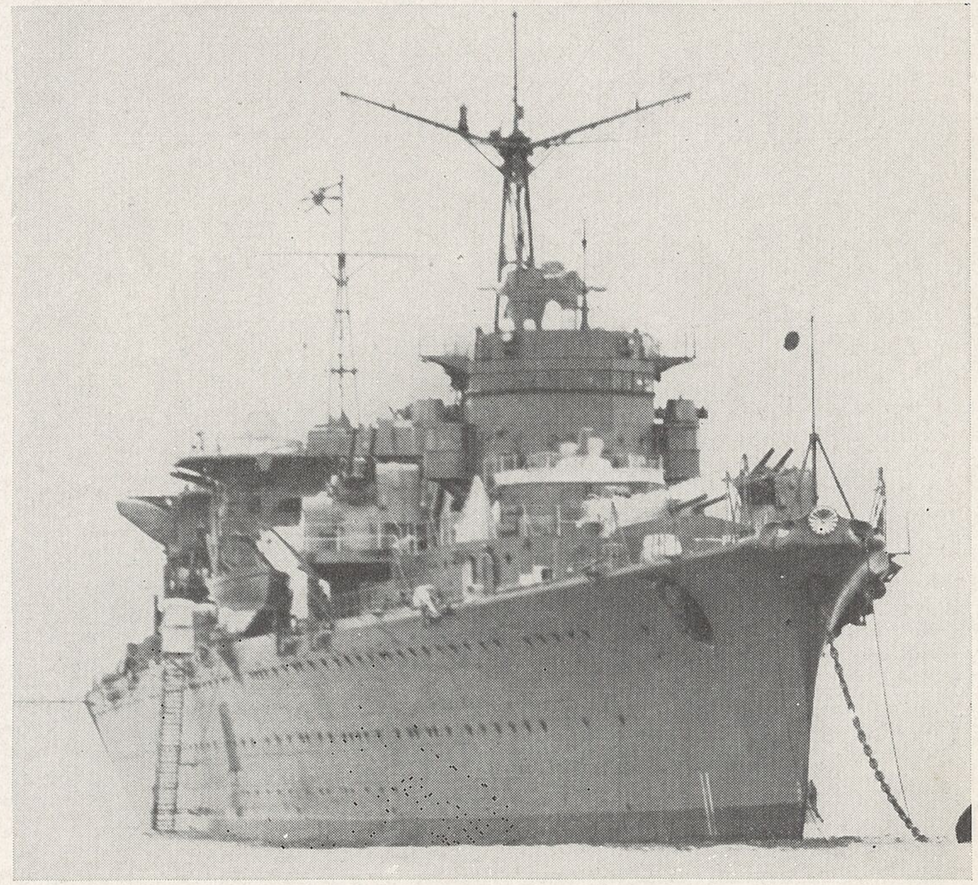
RESTRICTED

ALL PHOTOS MIZUHO DATED APRIL, 1940.







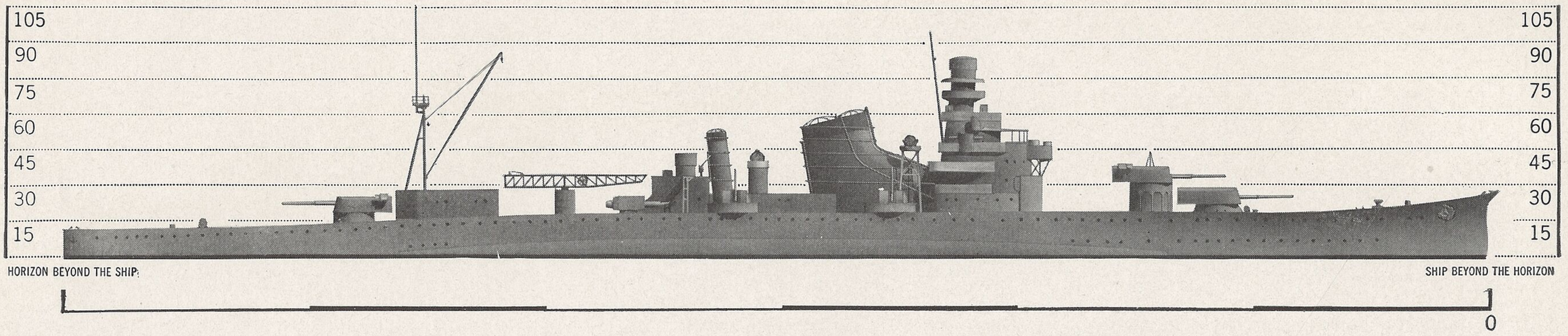


CRUISERS

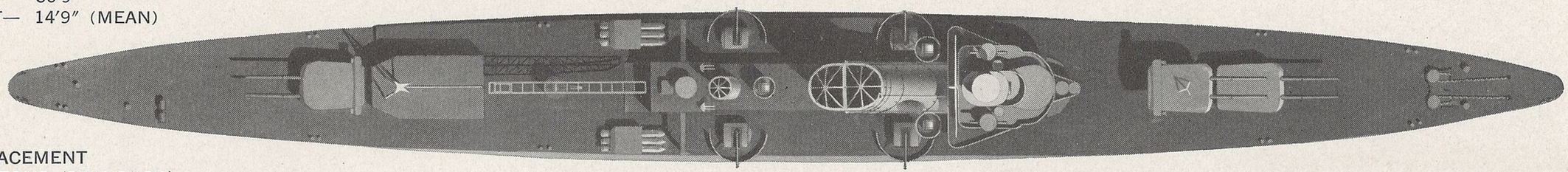
ONI 41-42 RESTRICTED

FURUTAKA CLASS—CA 1, 2

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL, 1943

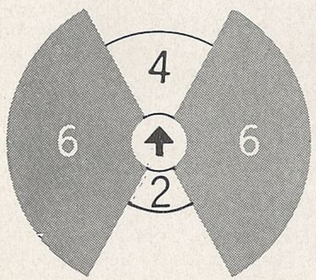


LENGTH—595′ OA
BEAM— 50′9″
DRAFT— 14′9″ (MEAN)



DISPLACEMENT
7,100 TONS (STANDARD)
7,500 TONS (NORMAL)

DENSITY OF FIRE
MAIN BATTERY



ARMAMENT

	MAX. ELEV.	RANGE (HORIZONTAL)	RANGE (VERTICAL)
6–8″ (50) TWINS	30°	28,000 YD.	
4–4.7 (50) AA	85°	19,000 YD.	25,000 FT.

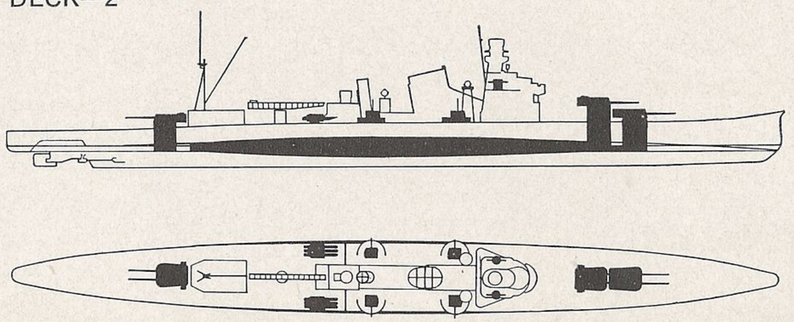
10 MG
12–21″ TORPEDO TUBES
1 CATAPULT; 2 SCOUT OBSERVATION PLANES

PROPULSION

MACHINERY— GEARED TURBINE
BOILERS— TWELVE YARROW
FUEL— OIL, 1,800 TONS; COAL, 400 TONS
DESIGNED HP— 95,000
DESIGNED SPEED—33 KNOTS*
ENDURANCE— 8,000 MILES @ 10 KNOTS
1,740 MILES @ 33 KNOTS
*SPEED PROBABLY REDUCED BY BULGES.

PROTECTION

BELT—2″ (AMIDSHIPS)
DECK—2″



FURUTAKA CLASS

FURUTAKA—CA 1

KAKO—CA 2

FURUTAKA CLASS CA1,2

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL, 1943

PROFILE →

TOWER BRIDGE, STICK FOREMAST, TRIPOD MAINMAST

JAP RAKED STACK FORWARD, RAKED SINGLE PIPE AFT.

←

AERIAL

SUPERIMPOSED TWIN TURRETS FORWARD

SINGLE TWIN AFT

CATAPULT AMIDSHIPS

MISTAKEN IDENTITY

FURUTAKA CLASS—CA1, 2

AOBA CLASS—CA3, 4

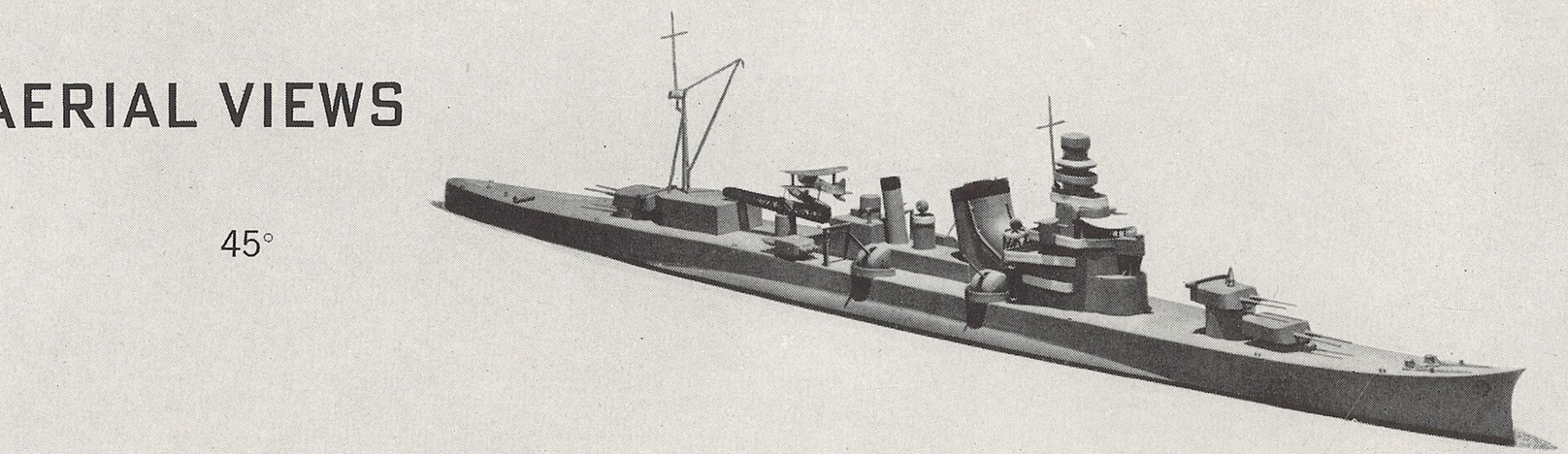
NACHI CLASS—CA5-8

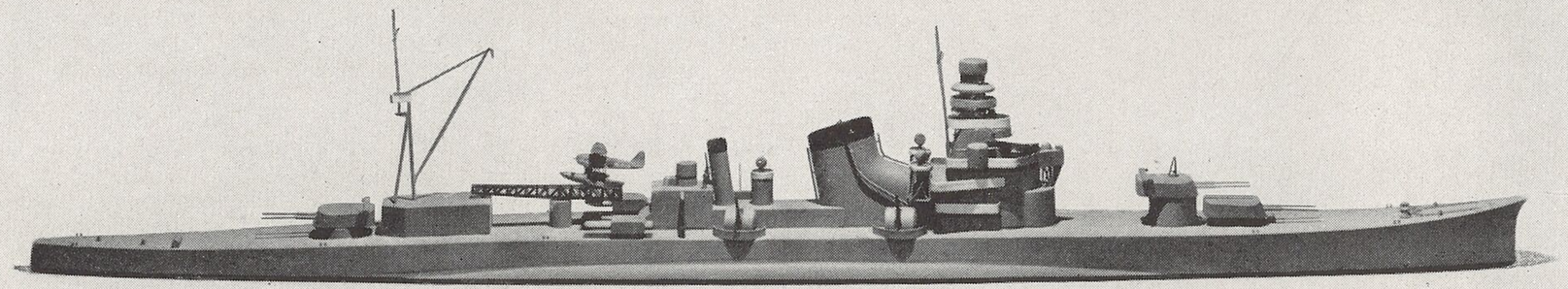
ATAGO CLASS—CA9, 10

OTHERS AT BOW OR STERN ANGLES

AERIAL VIEWS

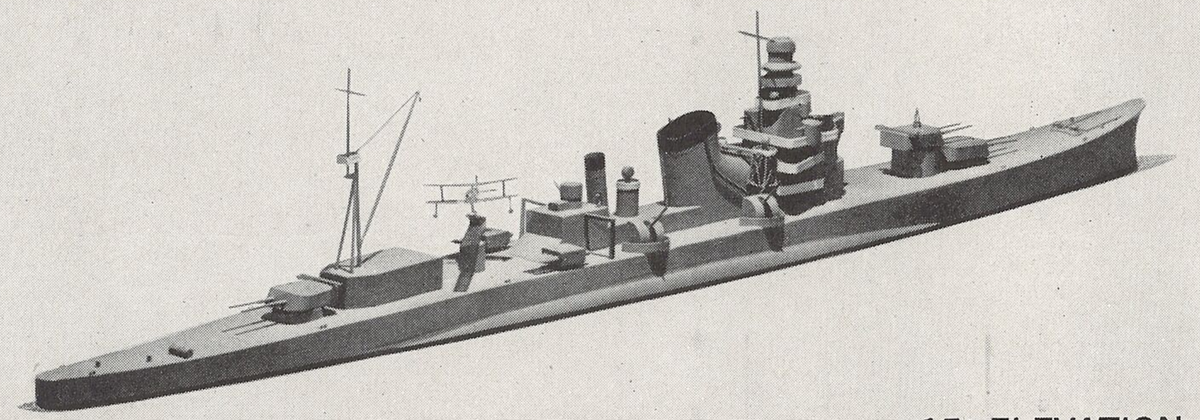
45°





90°

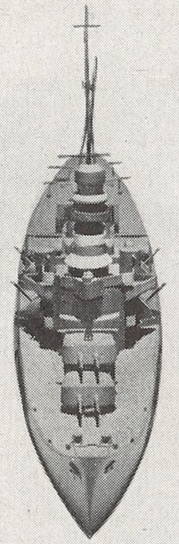
135°



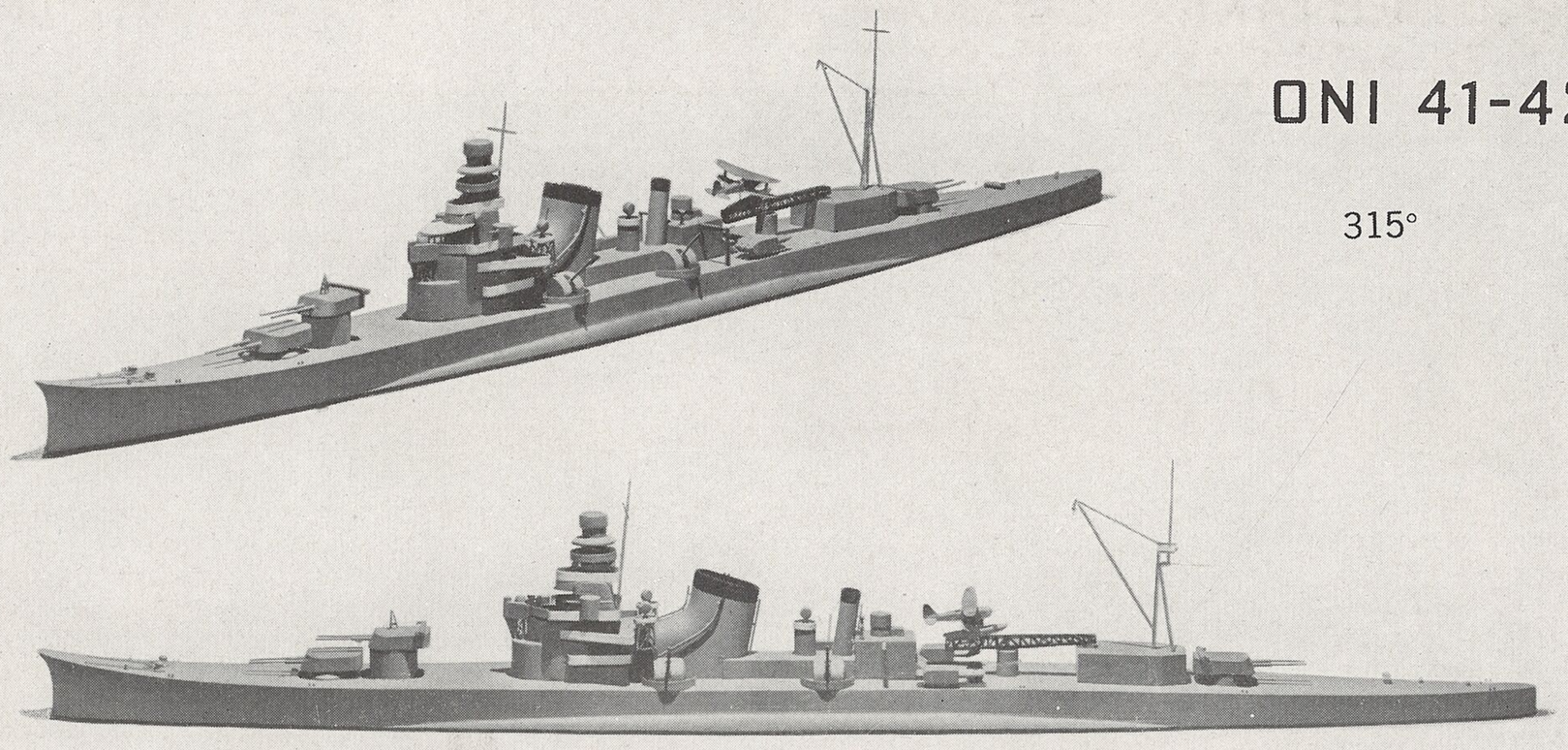
15° ELEVATION

ONI 41-42

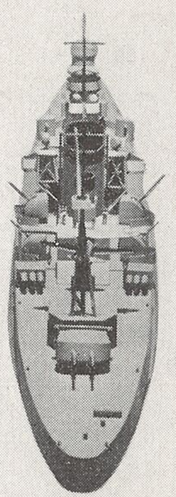
0°



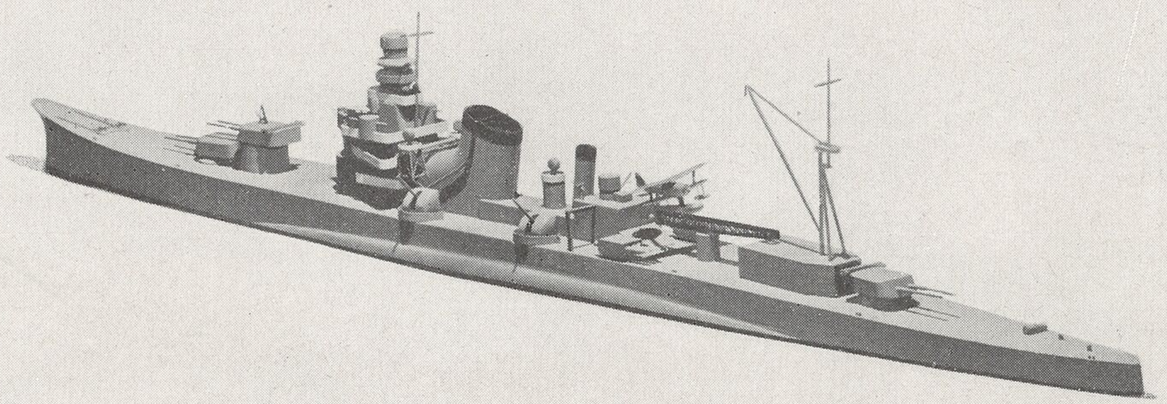
315°



270°



180°



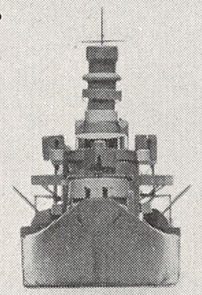
225°

FURUTAKA CLASS—CA 1, 2

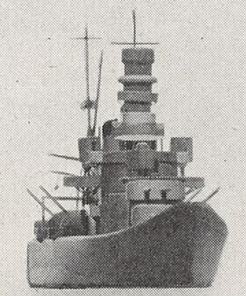
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL, 1943

TARGET ANGLES

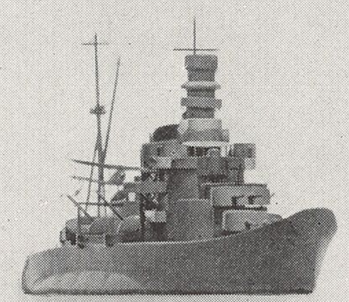
0°



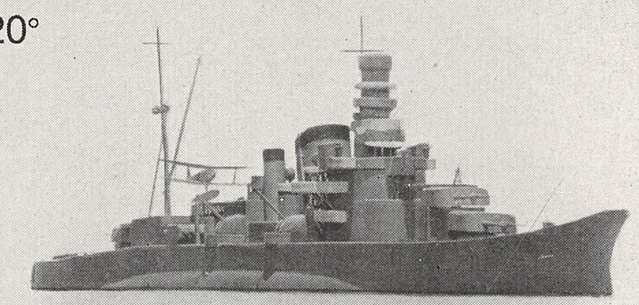
5°



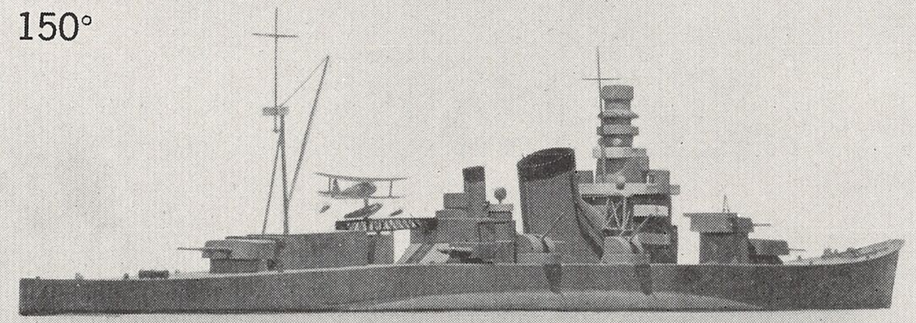
10°



20°

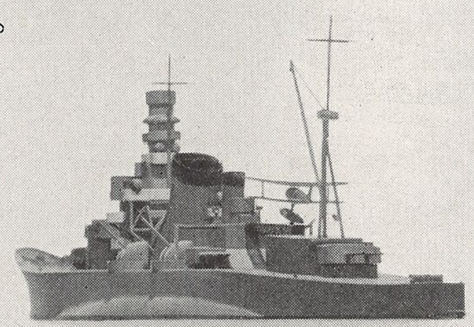


150°

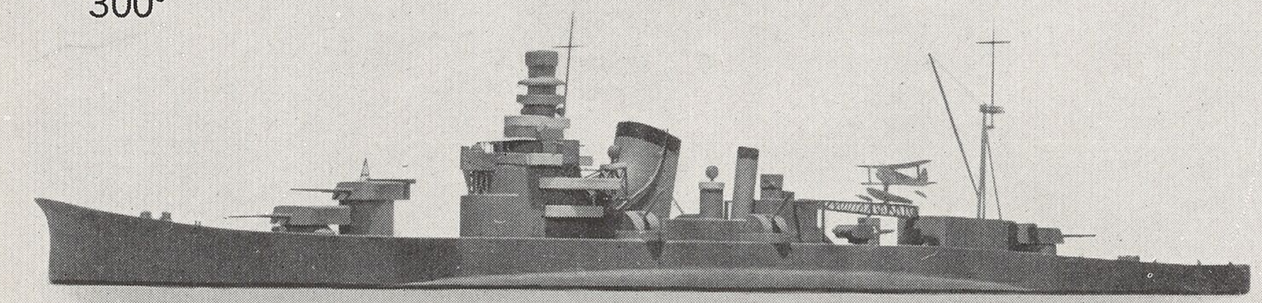


165°

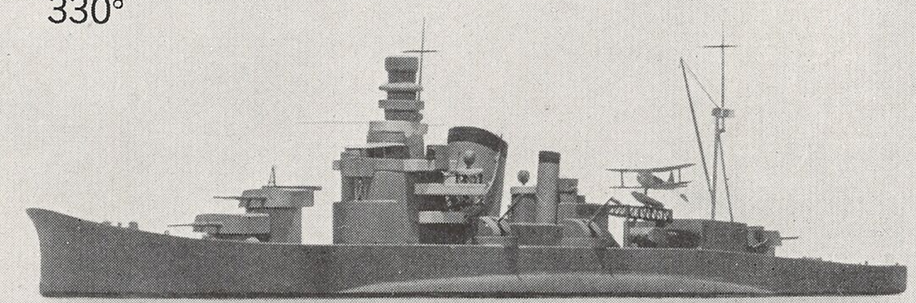
195°



300°



330°



KNOTS	RPM
	400
	375
	350
	325

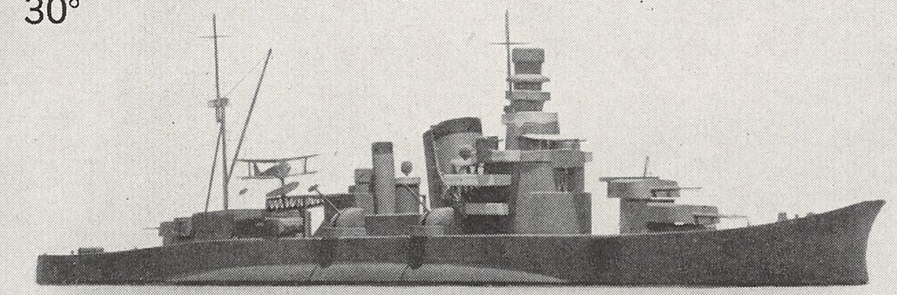
KNOTS	RPM
	300
	275
	250
	225

KNOTS	RPM
	200
	175
	150
	125

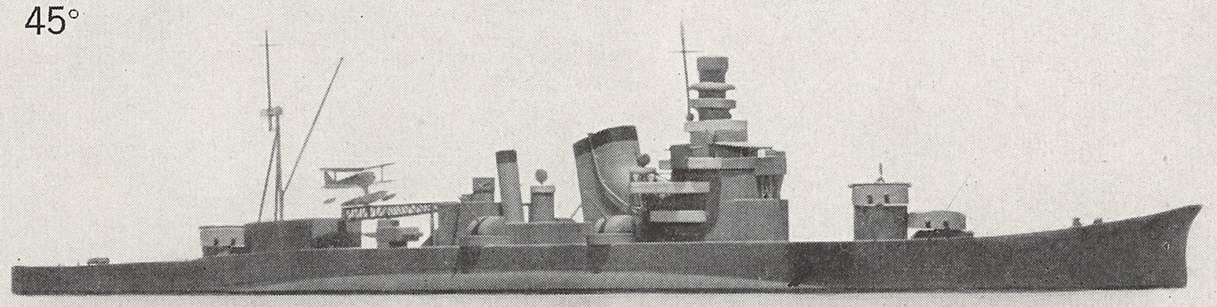
KNOTS	RPM
	100
	75
	50
	25

ONI 41-42

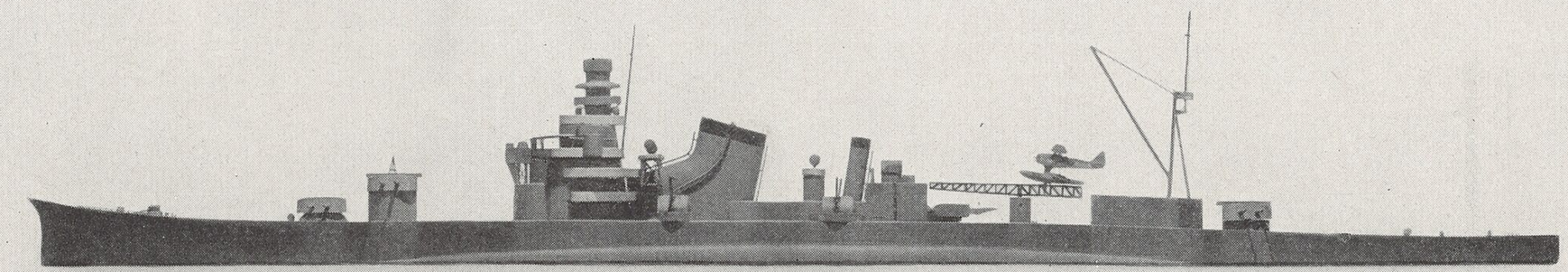
30°



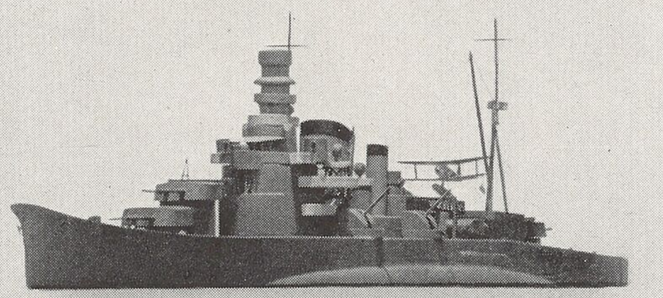
45°



270°

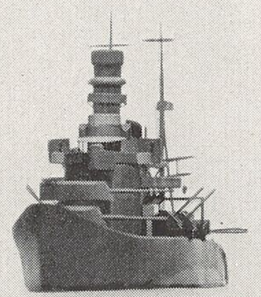


340°



350°

355°



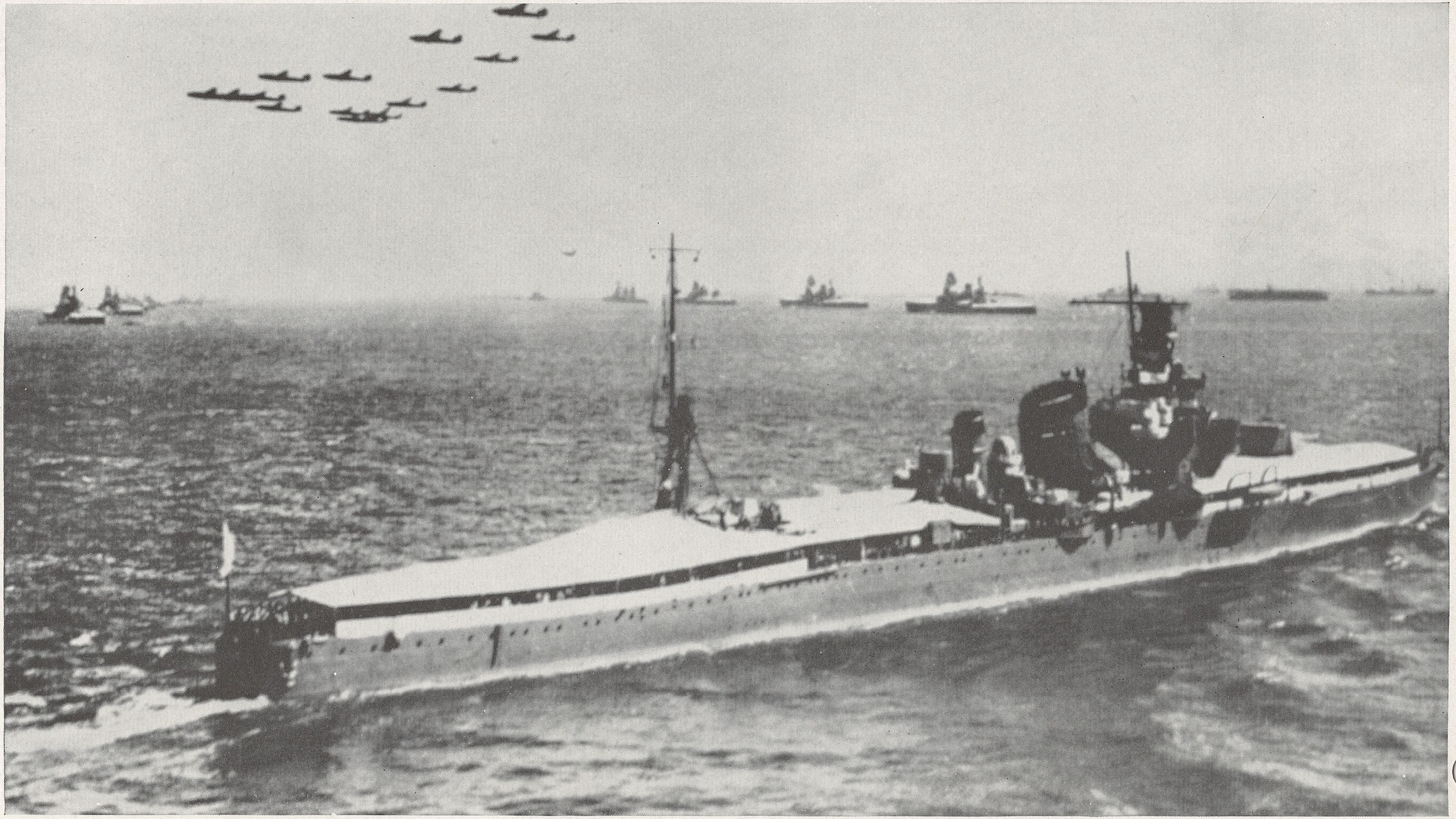
FURUTAKA CLASS—CA 1,2

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL, 1943

	BEGUN	COMPLETED
FURUTAKA—CA1	12/5/22	3/31/26
KAKO— CA2	11/17/22	7/20/26

MODERNIZED IN 1939, BULGES ADDED.

RESTRICTED

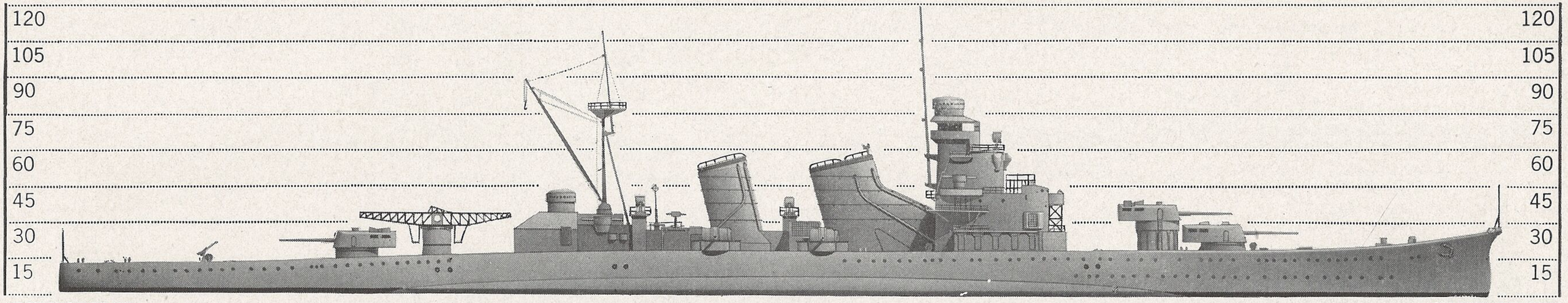


ONI 41-42 RESTRICTED

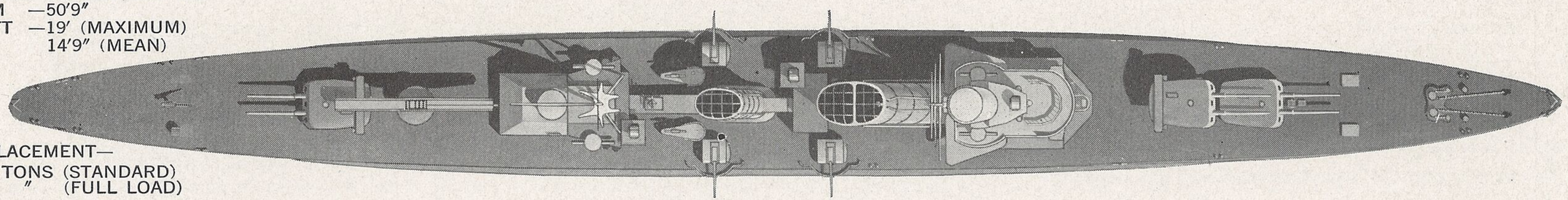
AOBA—KINUGASA

AOBA CLASS—CA3-4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—DECEMBER, 1942

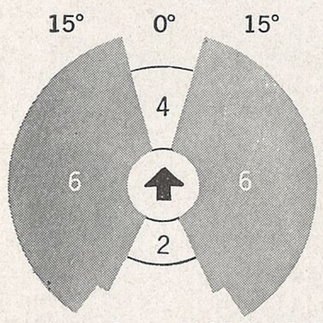


LENGTH—598′ OA—594′ WL
BEAM —50′9″
DRAFT —19′ (MAXIMUM)
14′9″ (MEAN)



DISPLACEMENT—
7100 TONS (STANDARD)
7500 ″ (FULL LOAD)

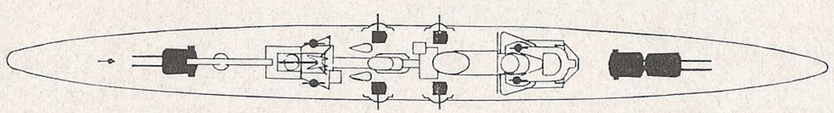
DENSITY OF FIRE
MAIN BATTERY



ARMAMENT

	MAX. ELEV.	RANGE
6-8″ 50 CAL. TWIN TURRETS	35°	32,600 YD
4-4.7 50 CAL. AA—SINGLE MOUNTS	85°	21,000 YD

12-21″ TORPEDO TUBES—TWIN MOUNTS
1 CATAPULT—2 SEAPLANE SCOUTS
50 MINES—MOORED TYPE

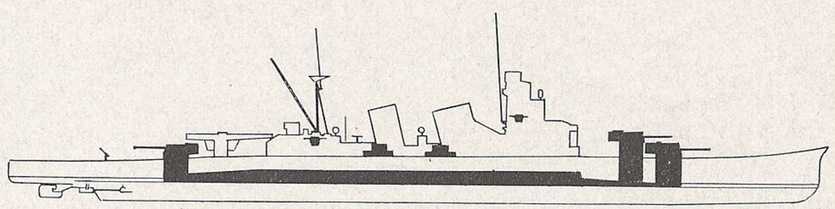


PROTECTION

BELT—2″-3″
TURRETS—1″
BARBETTES—
CONNING TOWER—
DECK—2″ (OVER VITALS)

PROPULSION

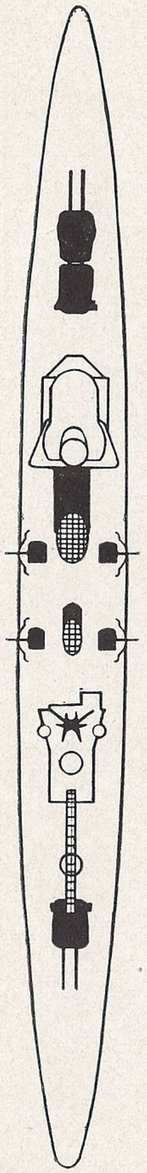
MACHINERY—4 GEARED TURBINES
BOILERS—12 KAMPON
FUEL—OIL—1800 TONS
DESIGNED HP—95,000
DESIGNED SPEED—33 KTS
ENDURANCE—1120 @ 33 KTS
5040 @ 15 KTS



KNOTS	RPM
	420
	400
33	370
	350
	300
	275
	250
	245
	240
	220
	200
	160
	150
	120
	80

AOBA CLASS
CA 3-4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —DECEMBER, 1942

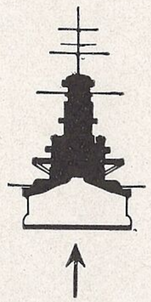


PROFILE—
STACKS—
JAP RAKED FOR'D
RAKED SINGLE PIPE AFT
HEAVY, STEPPED BRIDGE
STICK FOREMAST, TRIPOD MAINMAST

→

AERIAL—
TURRETS—
2 SUPERIMPOSED TWINS FOR'D
SINGLE TWIN AFT
HIGH, PROMINENT CATAPULT AFT

←

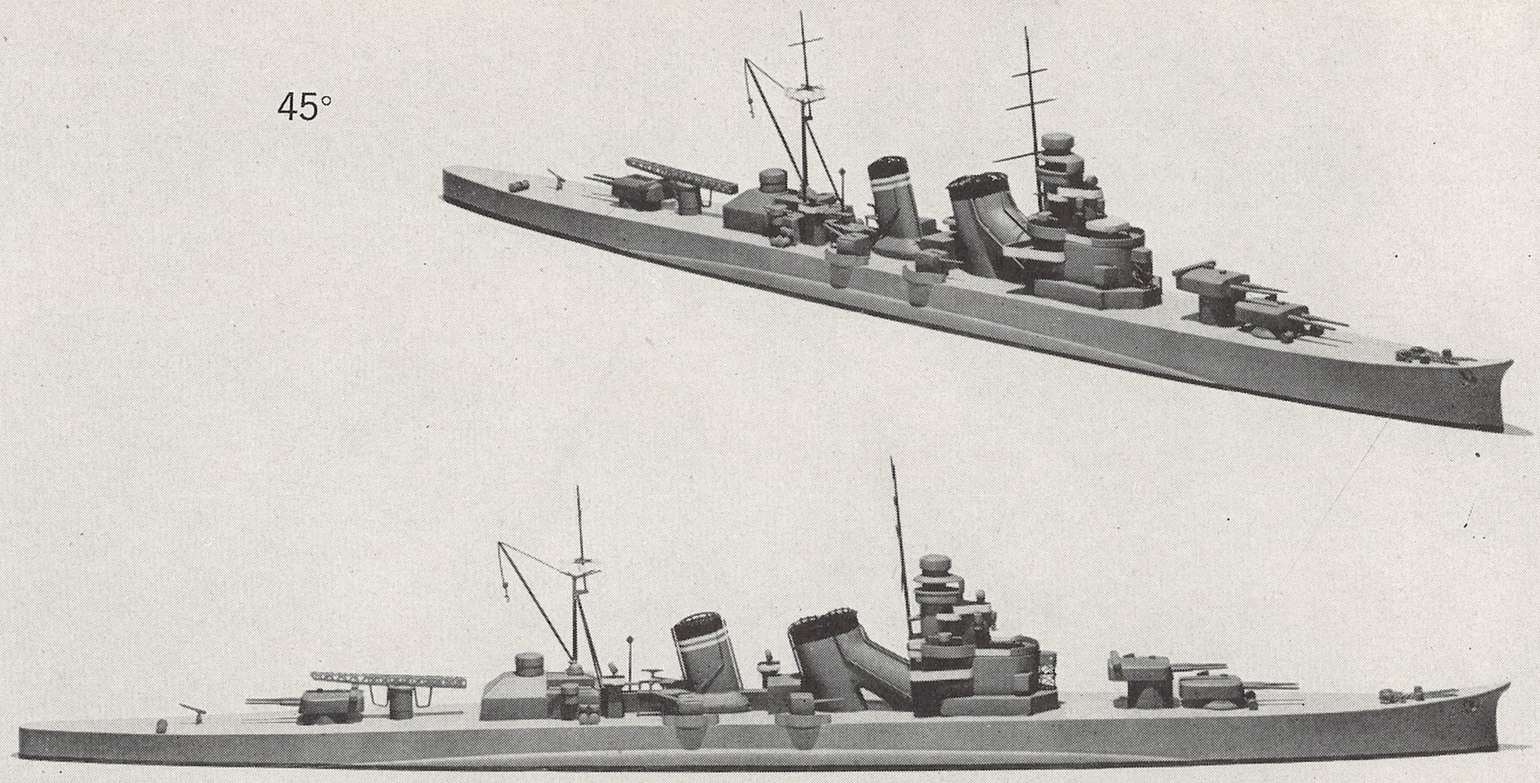


↑

END-ON—
HIGH, NARROW BRIDGE
HEAVY CONTROL TOWER

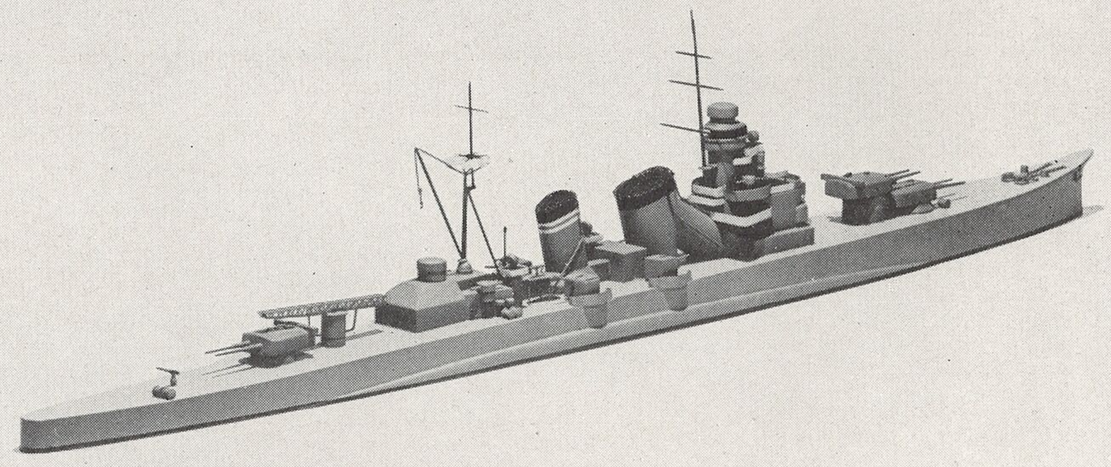
EASILY MISTAKEN FOR **NACHI**

45°

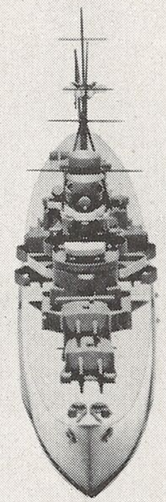


90°

135°



0°



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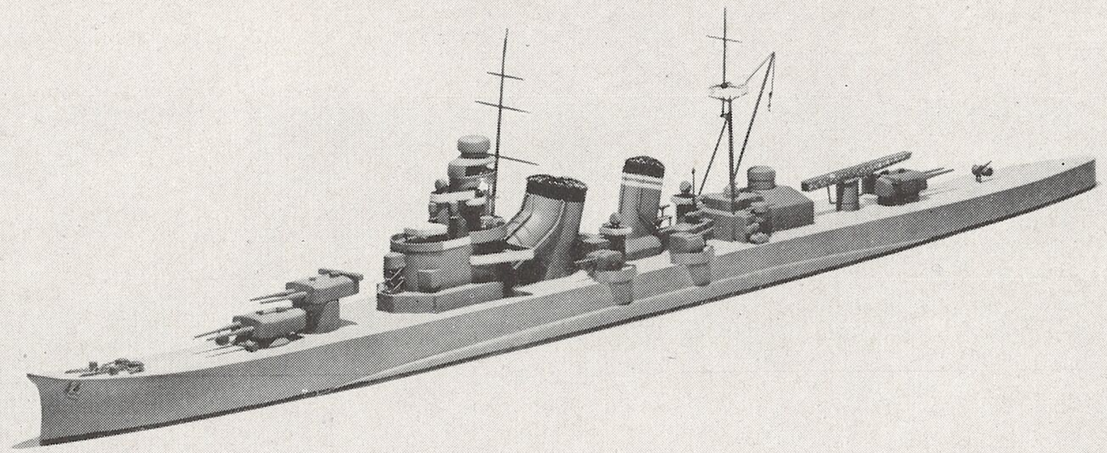

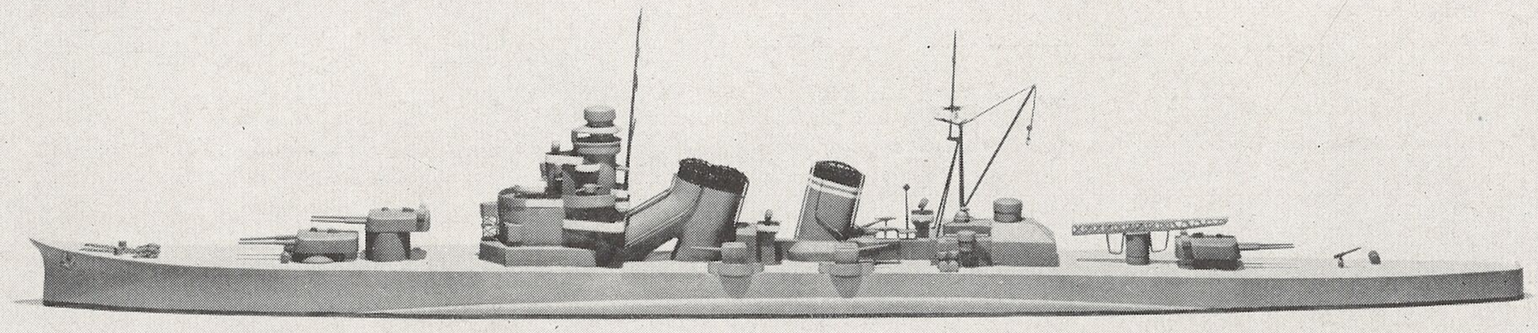

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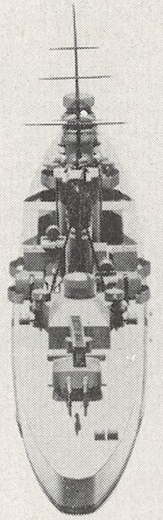

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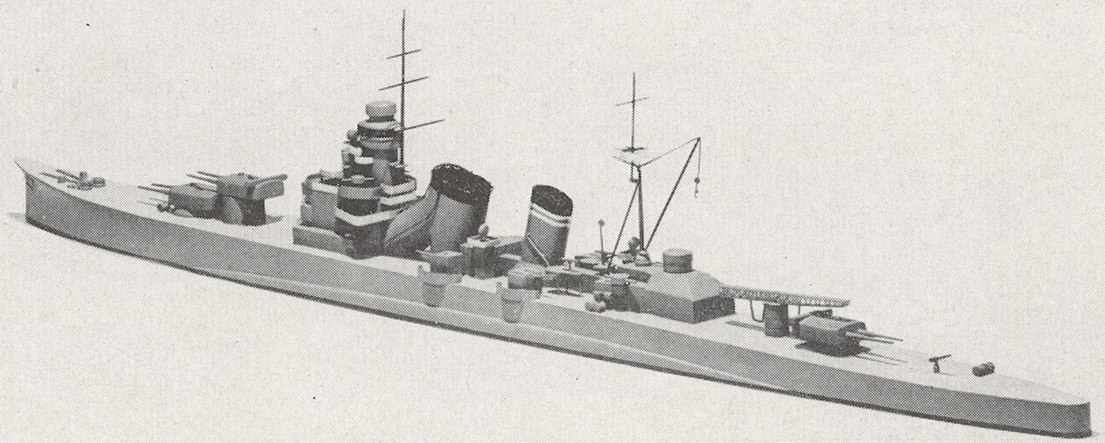


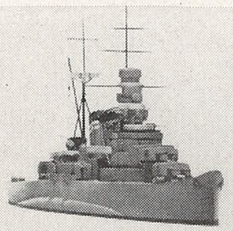
225°

AOBA CLASS—CA 3-4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—DECEMBER, 1942

0°

10°



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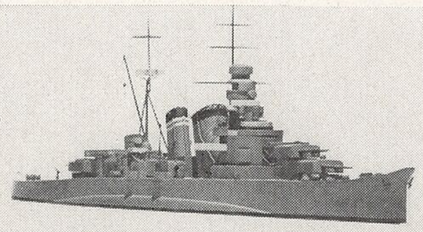

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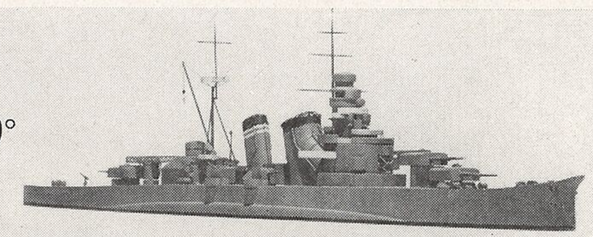

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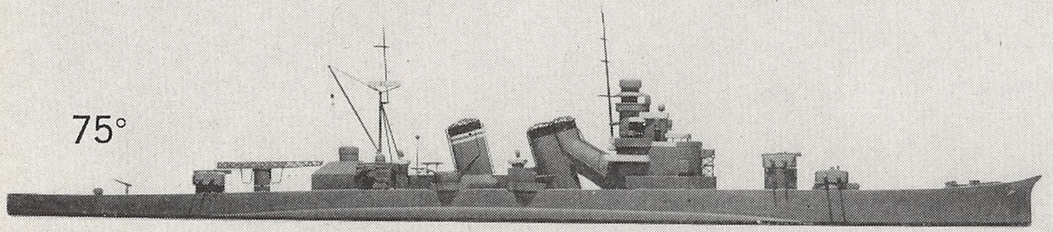

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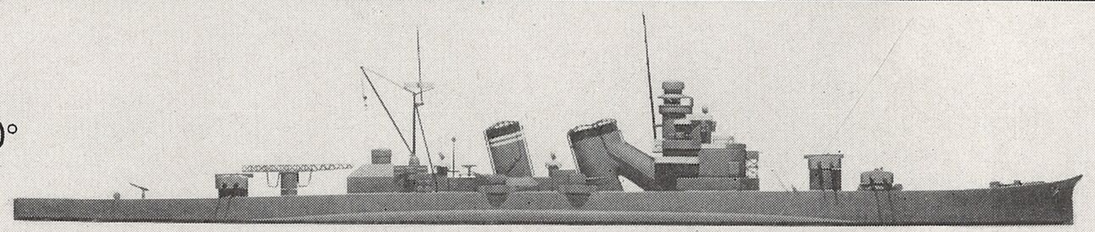

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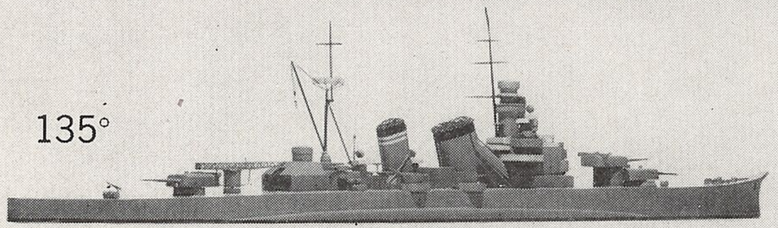

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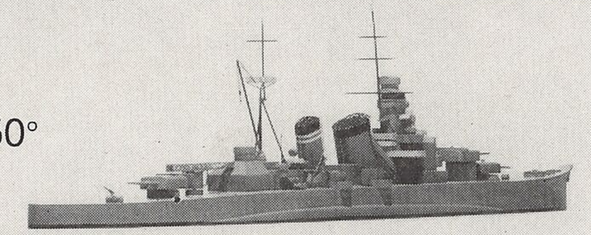

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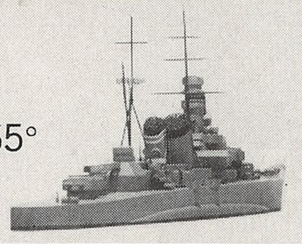
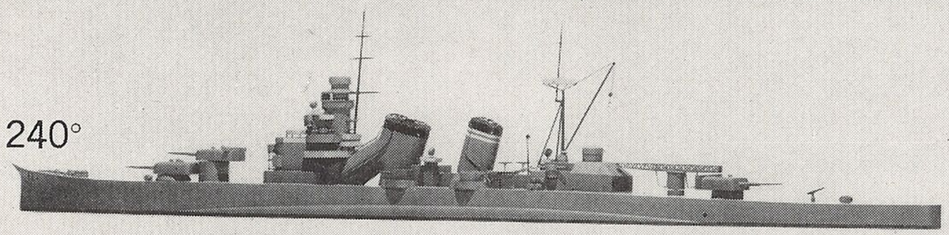


180°

240°



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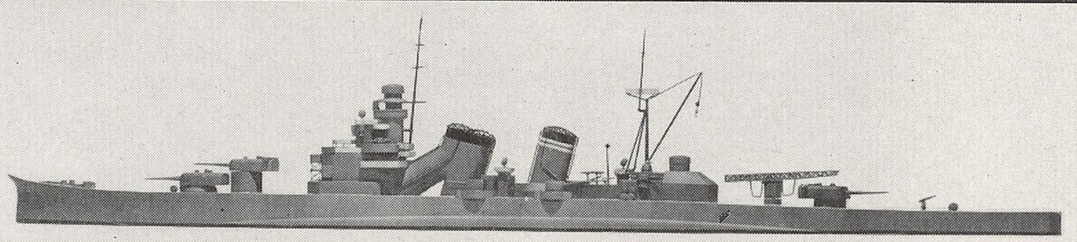

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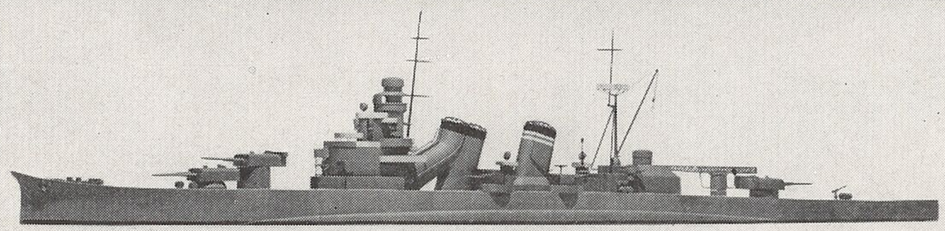

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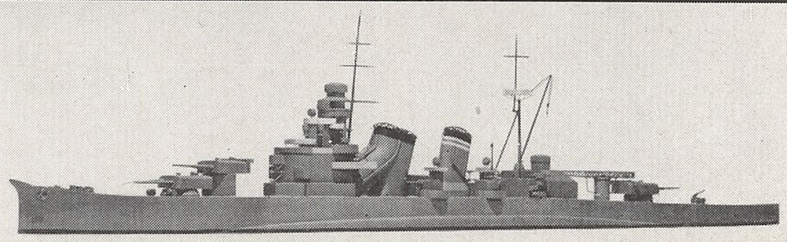


ONI 41-42

KNOTS	RPM
	420
	400
	375
	350

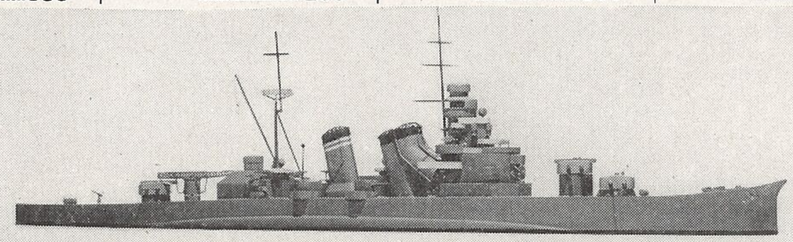
KNOTS	RPM
	325
	300
	275
	250

KNOTS	RPM
	225
	200
	175
	150

KNOTS	RPM
	125
	100
	75
	50

KNOTS	RPM
	25

45°



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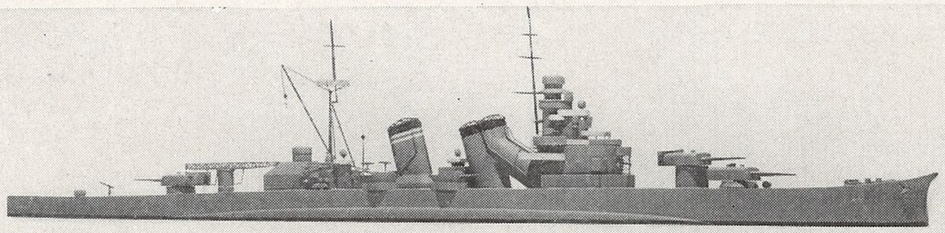

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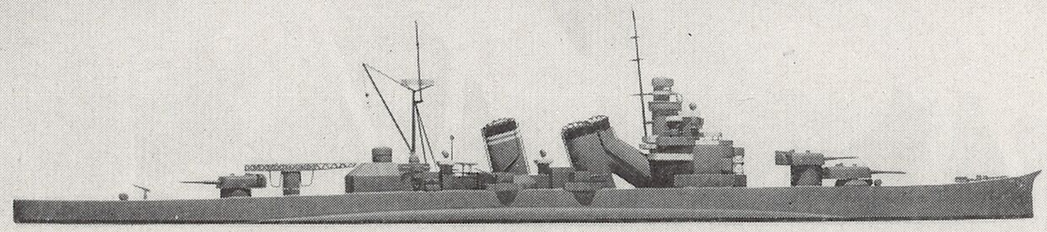

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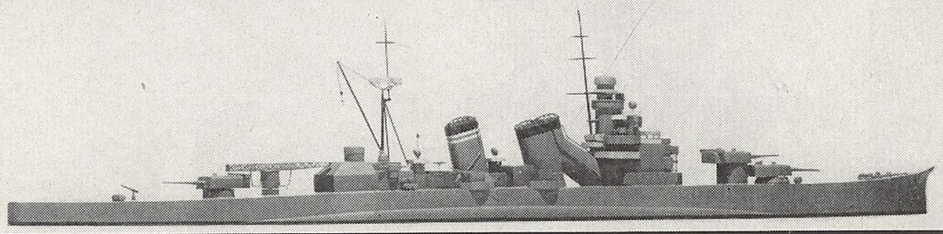

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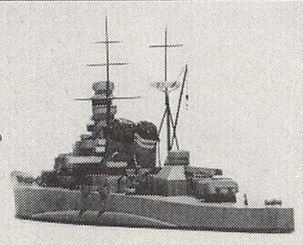

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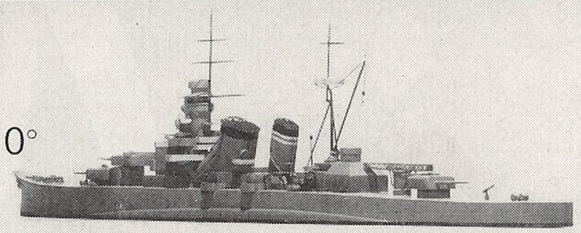
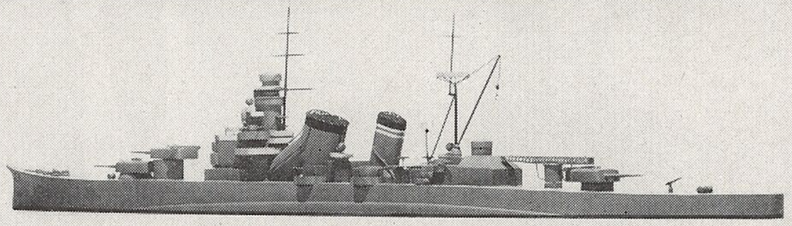
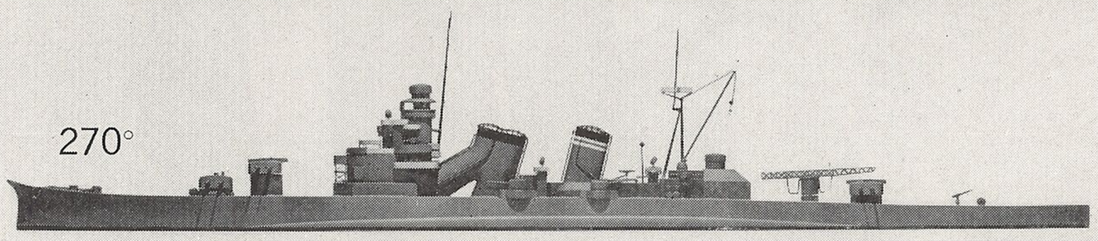


225°



270°



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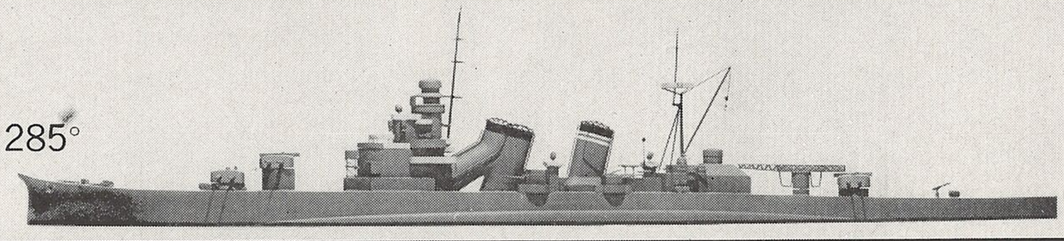
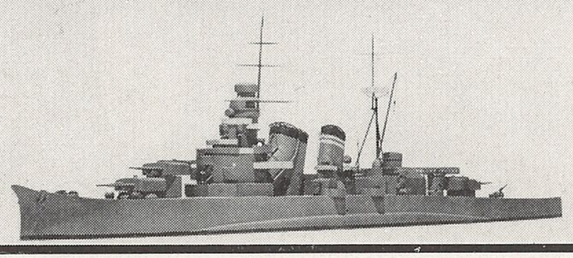


330°



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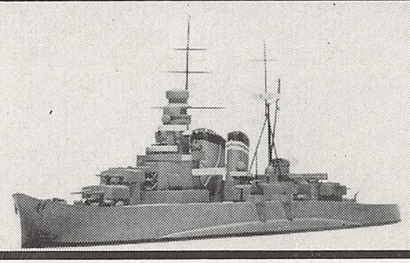

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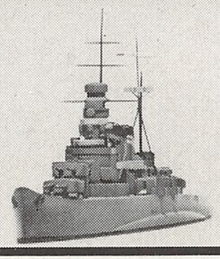


355°

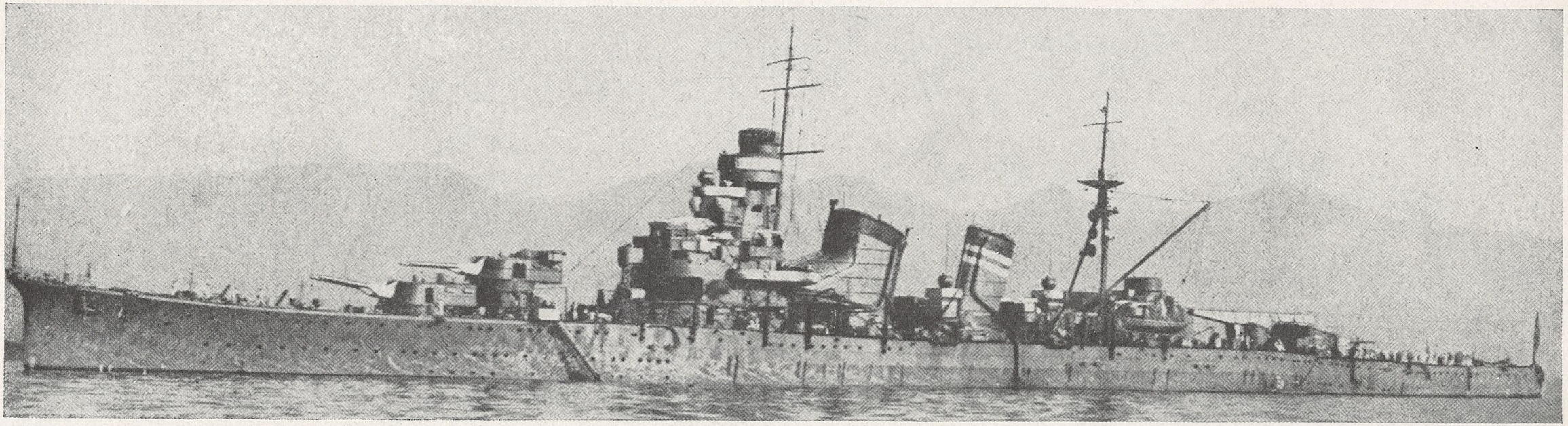
AOBA CLASS—CA 3-4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—OCTOBER, 1942

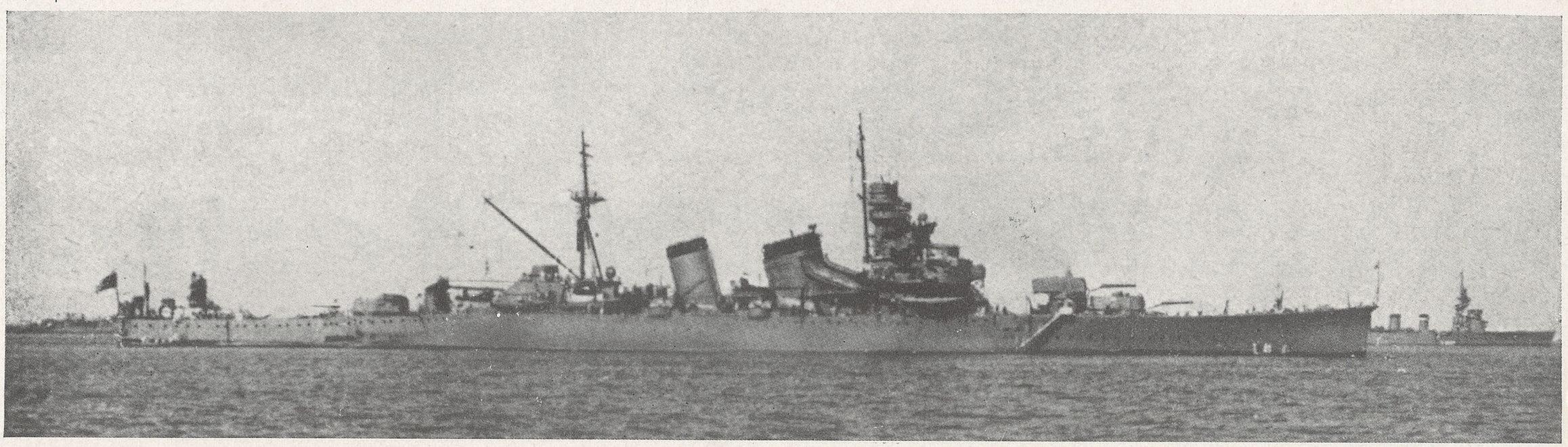
	BEGUN	COMPLETED
AOBA	— 2/4/24	9/20/27
KINUGASA	— 1/23/24	9/30/27

ONI 41-42

RESTRICTED



1933 ↑

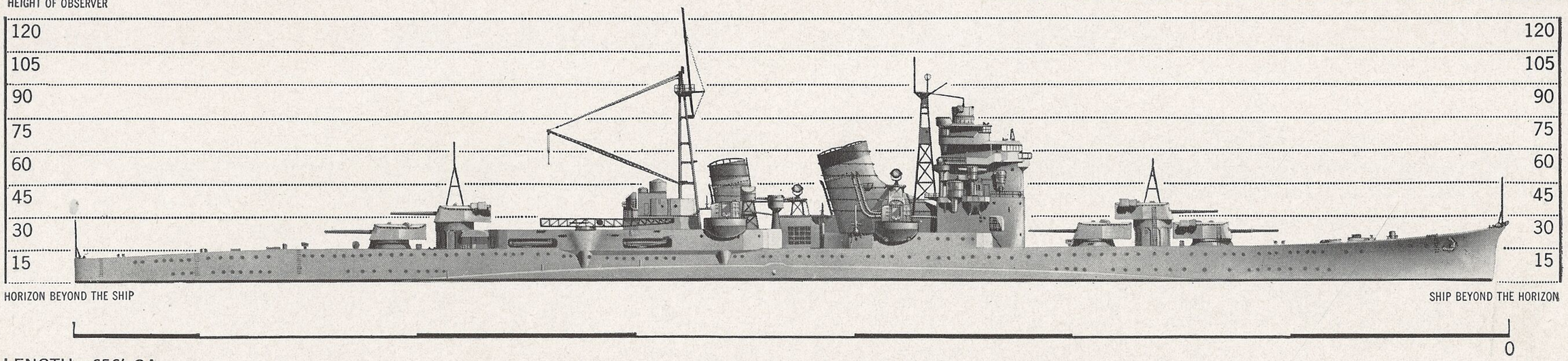


ONI 41-42 RESTRICTED

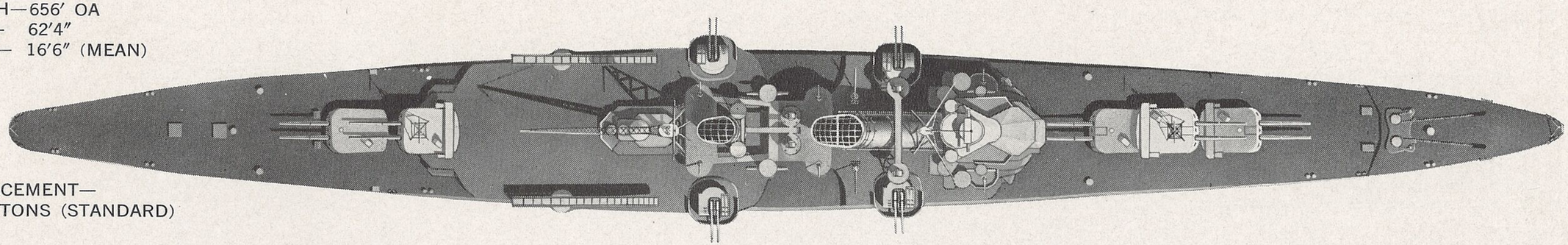
NACHI (NATI)—HAGURO—MYOKO—ASHIGARA (ASIGARA)

NACHI CLASS—CA5-8

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—OCTOBER, 1942

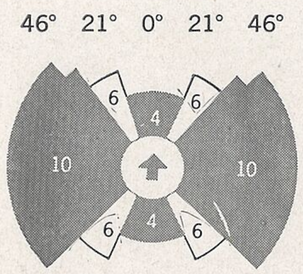


LENGTH—656′ OA
BEAM— 62′4″
DRAFT— 16′6″ (MEAN)



DISPLACEMENT—
10,000 TONS (STANDARD)

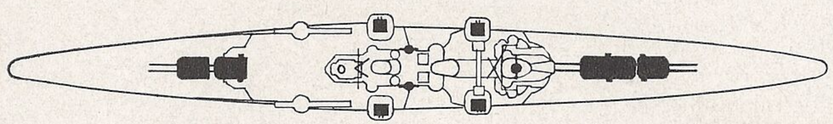
DENSITY OF FIRE
MAIN BATTERY



ARMAMENT

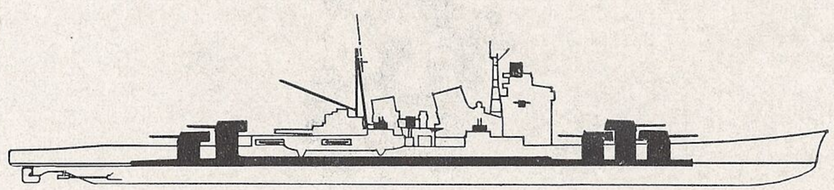
	MAX. ELEV.	RANGE
10-8″ 50 CAL TWIN TURRETS	35°	32,600 YD.
8-4.7 50 CAL AA TWIN SHIELD MOUNTS	85°	21,000 YD.

8-21″ TORPEDO TUBES—(TWIN MOUNTS)
2 CATAPULTS—4 SEAPLANE SCOUTS
DEPTH CHARGES CARRIED



PROTECTION

BELT— 3″-4″
TURRETS—
BARBETTES—
CONNING TOWER—3″
DECK— 1¼″-2″-3″ (OVER VITALS)



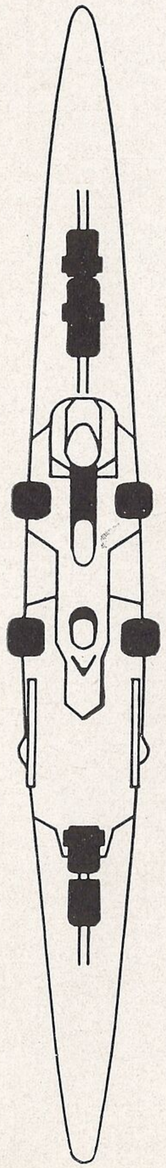
KNOTS	RPM
	420
	400
	350
	300
	275
	250
	245
	240
	220
	200
	160
	150
	120
	80

DES HP—100,000
DES SPD—33 KTS
ENDURANCE—
2800 @ 33 KTS
10,000 @ 15 KTS

NACHI CLASS
CA 5-8

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION
AND CHARACTERISTICS SECTION —DECEMBER, 1942

IDENTIFICATION

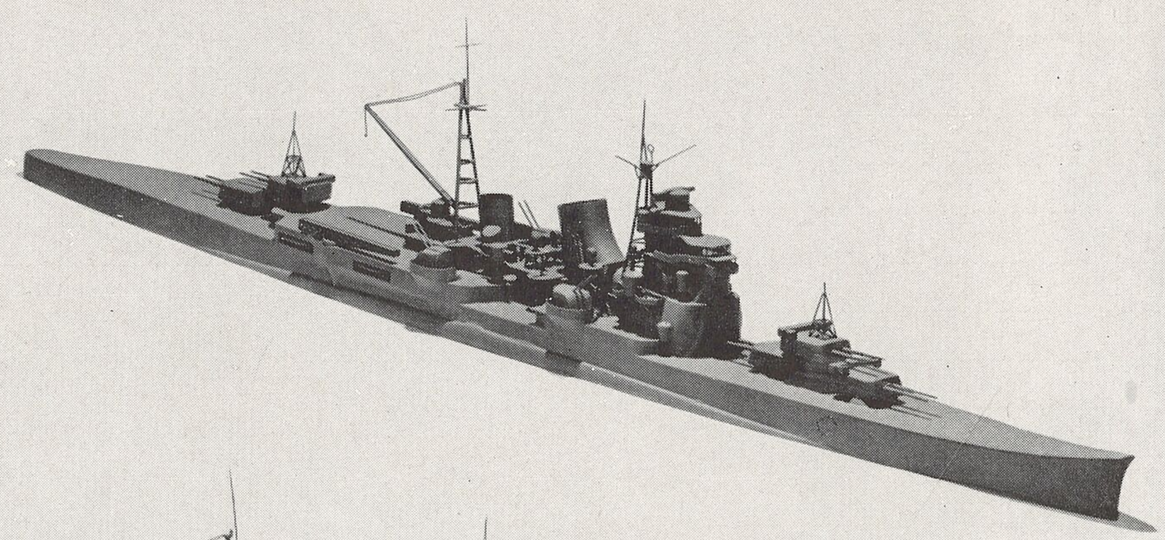


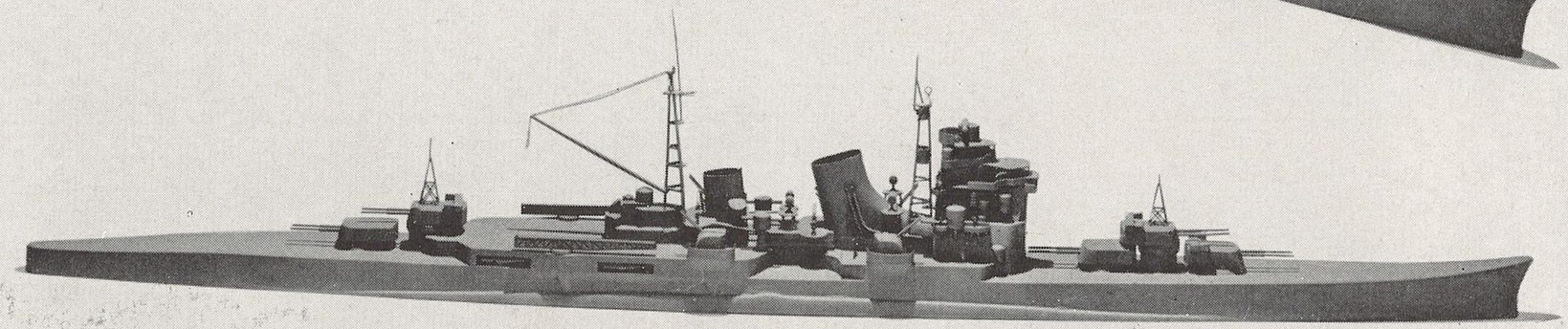
PROFILE—
- HIGH BRIDGE
- MASTS—
  - PYLON FORE
  - TRIPOD MAIN
- STACKS—
  - NO. 1 JAP RAKED
  - NO. 2 S.P. RAKED

AERIAL—
- TURRETS—
  - 3 TWINS FOR'D
  - 2 TWINS AFT
- SECONDARIES MOUNTED ON SPONSONS

END-ON—
- HIGH, NARROW BRIDGE
- PROMINENT SPONSONS

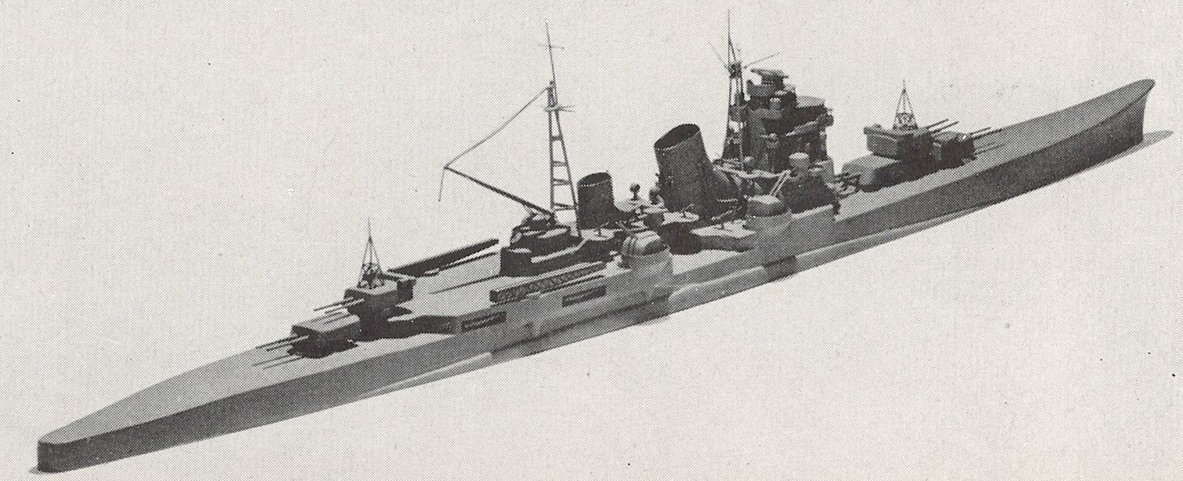
45°



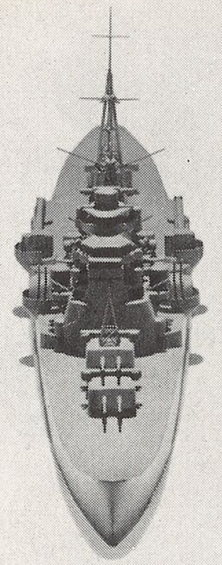


90°

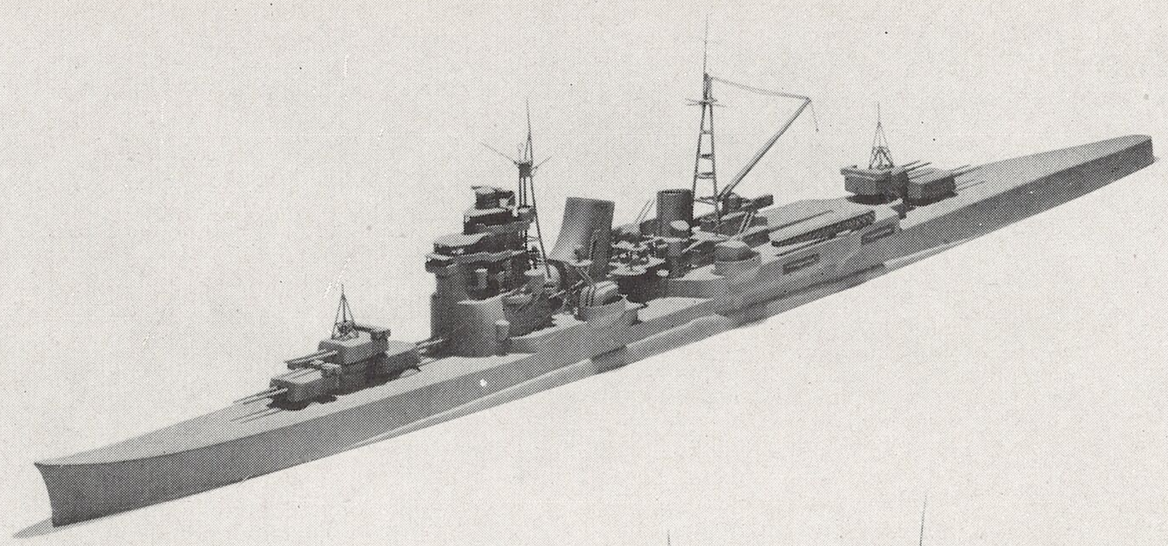
135°



0°

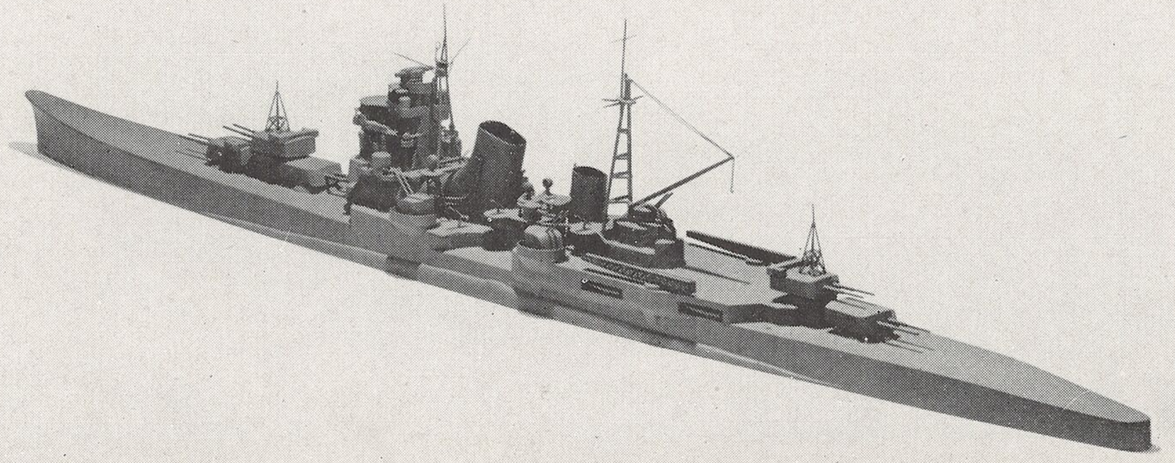


315°

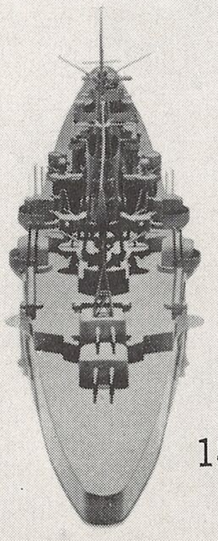


270°

225°



180°



NACHI CLASS—CA 5-8

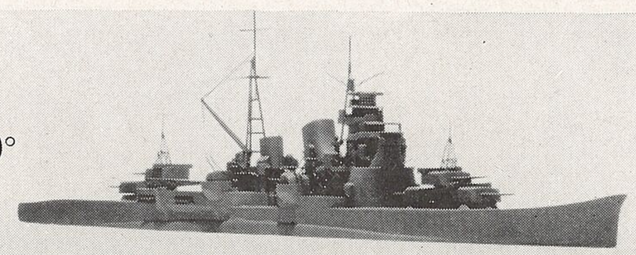
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —NOVEMBER, 1942

0°

10°

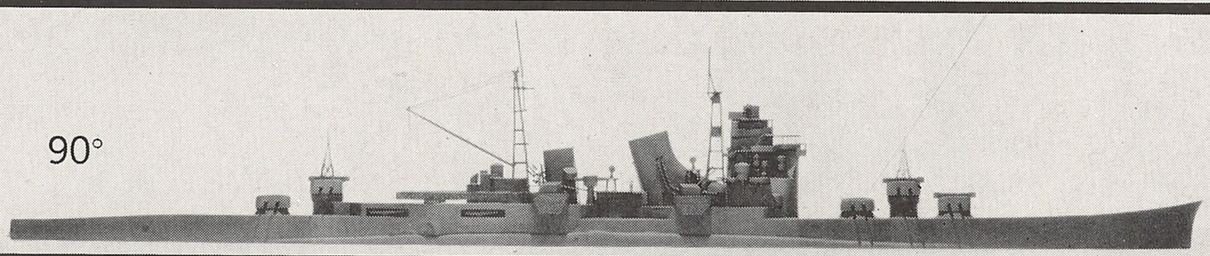
20°

30°



75°

90°



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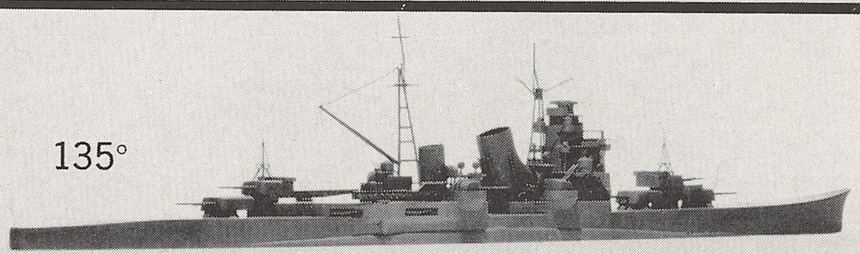
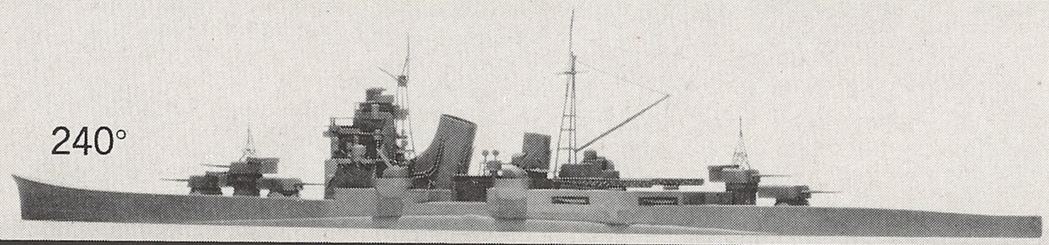


150°

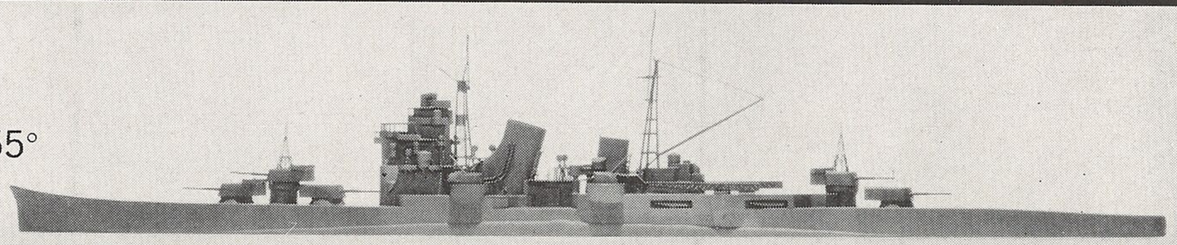
165°

180°

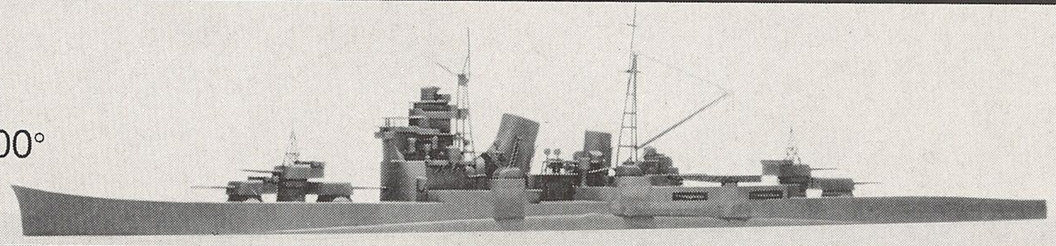
240°



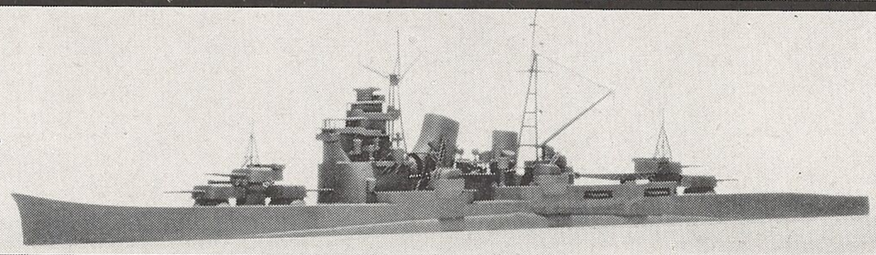
255°



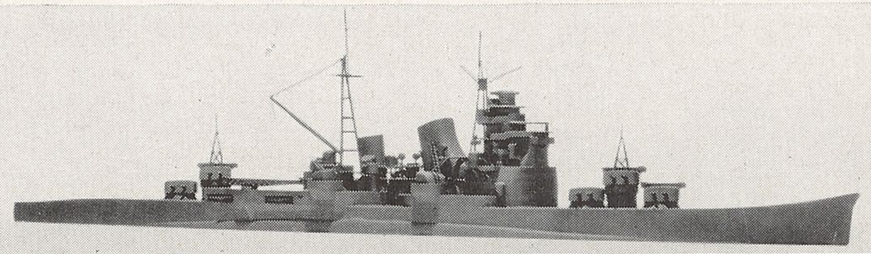
300°



315°



45°



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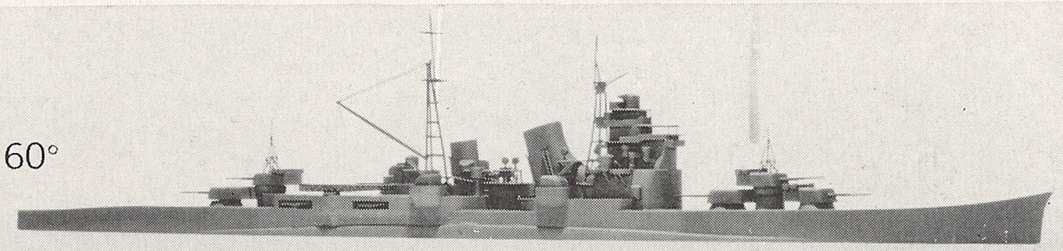
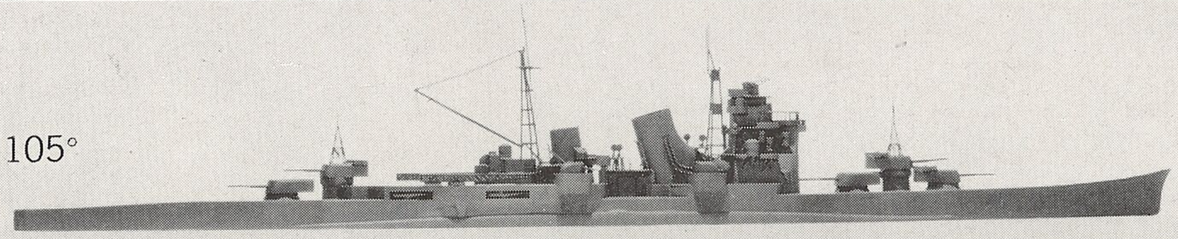


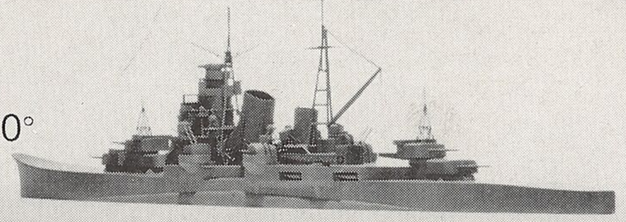
105°



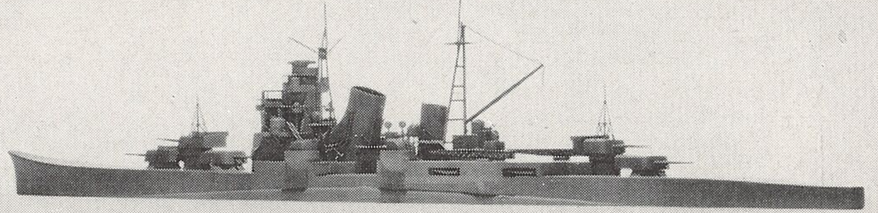
120°

195°

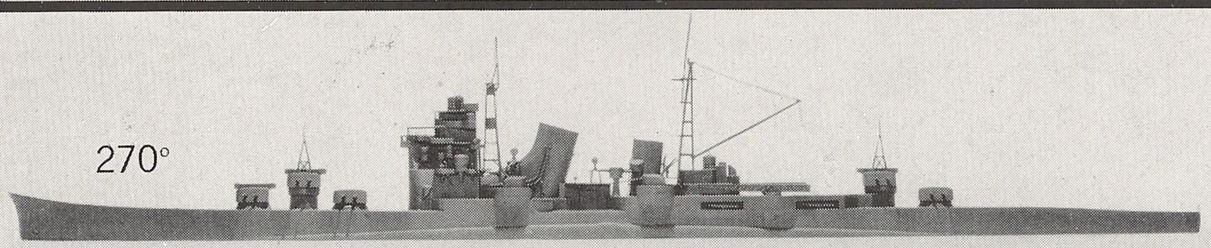
210°



225°



270°



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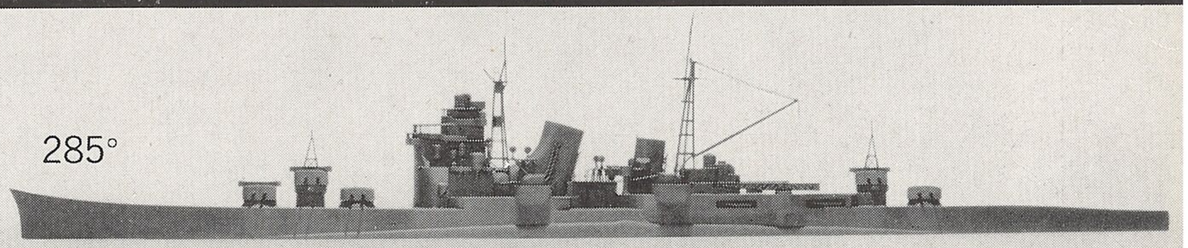


330°

340°

350°

355°

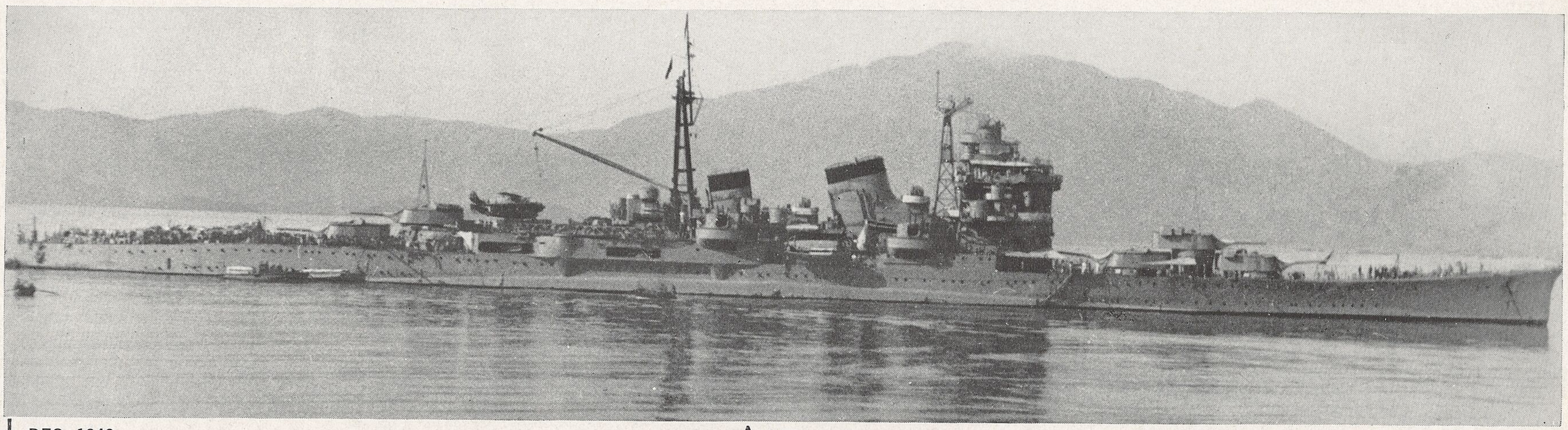
NACHI CLASS—CA 5-8

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—OCTOBER, 1942

		BEGUN	COMPLETED				
NACHI—	CA5	11/26/24	11/26/28	MYOKO—	CA7	10/25/24	7/31/29
HAGURO—	CA6	3/16/25	4/25/29	ASHIGARA—	CA8	4/11/25	8/20/29

ONI 41-42

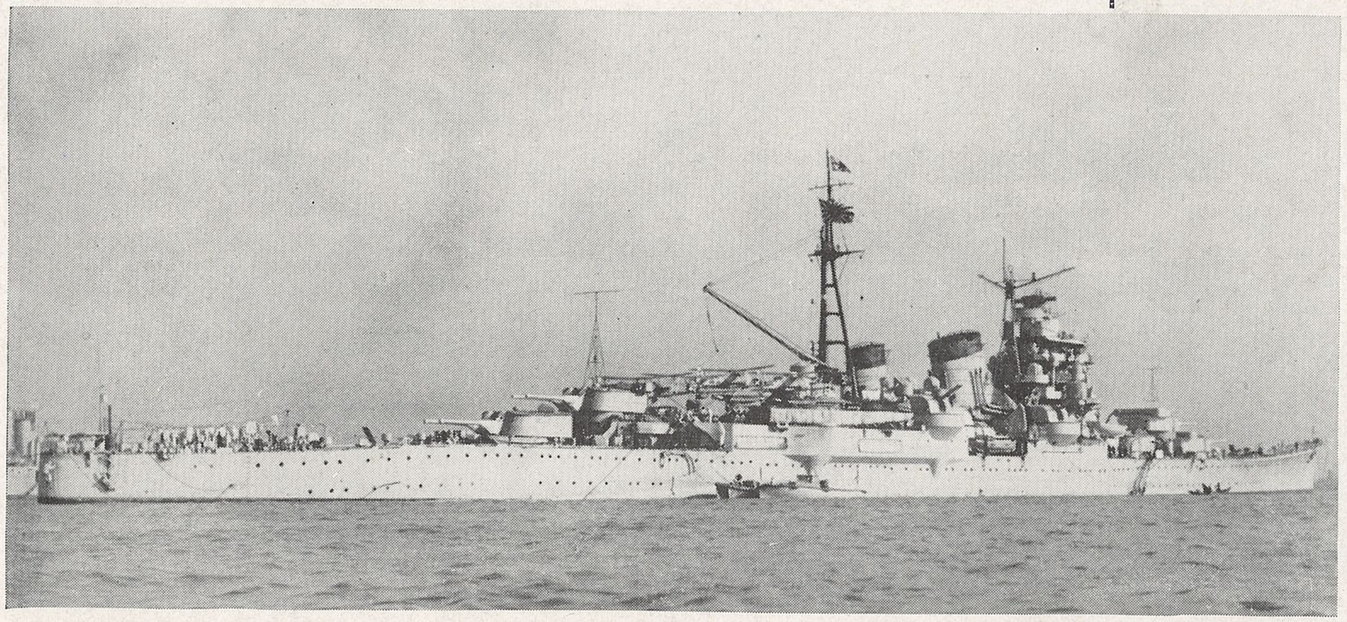
RESTRICTED

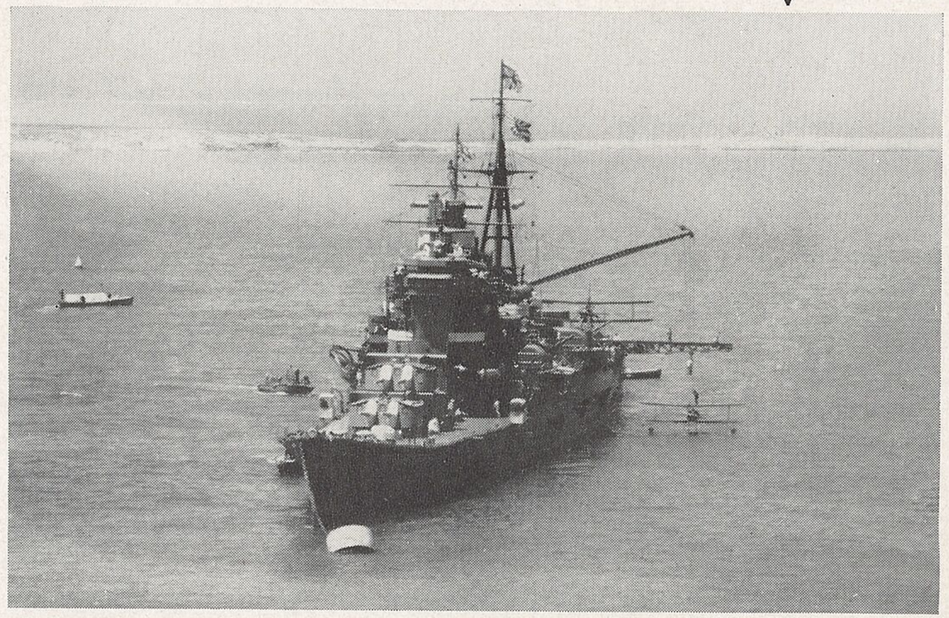


↓ DEC. 1940

↑ DEC. 1940

↓ MAY 1938



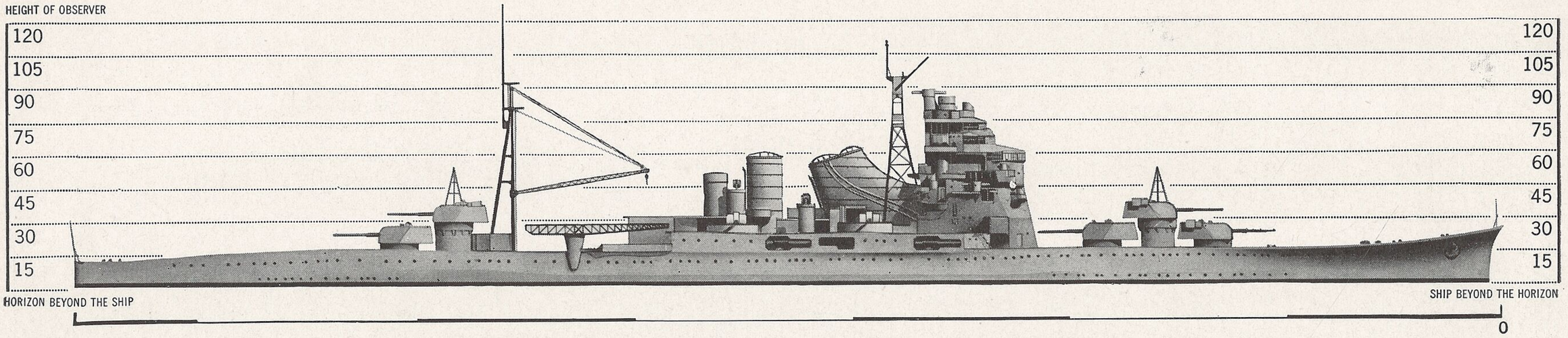


ONI 41-42 RESTRICTED

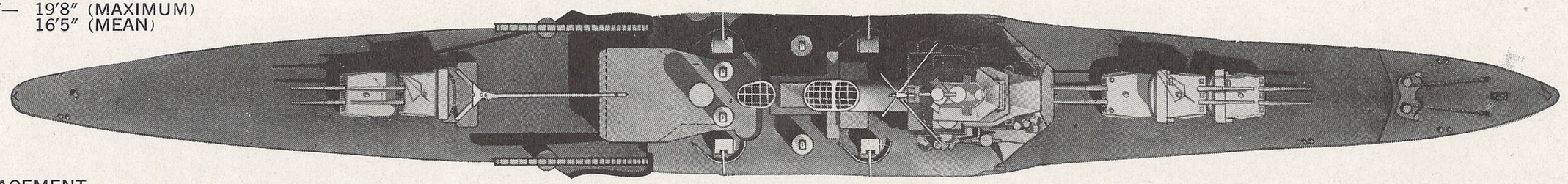
ATAGO-TAKAO

ATAGO CLASS—CA9-10

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —OCTOBER, 1942

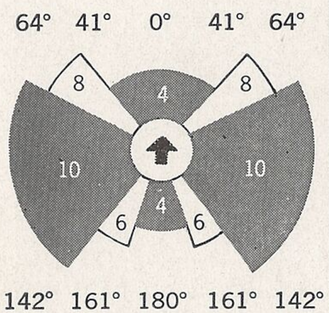


LENGTH—657′0″ OA—650′0″ WL
BEAM— 62′4″
DRAFT— 19′8″ (MAXIMUM)
16′5″ (MEAN)



DISPLACEMENT—
9,850 TONS (STANDARD)

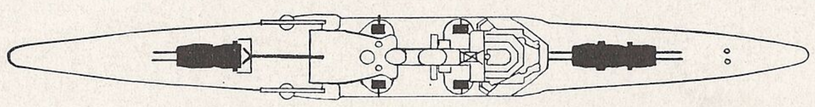
DENSITY OF FIRE
MAIN BATTERY



ARMAMENT

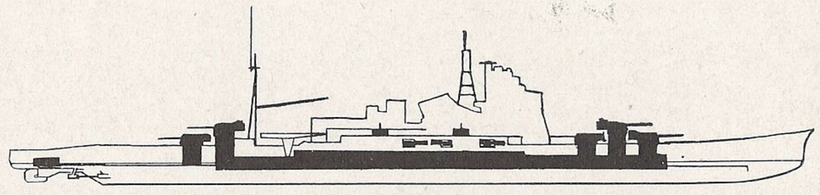
	MAX. ELEV.	RANGE
10–8″ 50 CAL TWIN TURRETS	35°	32,600 YD.
4–4.7 50 CAL AA	85°	21,000 YD.
8–21″ TORPEDO TUBES		
2 CATAPULTS—4 SEAPLANE SCOUTS		

IT IS REPORTED THAT THE 4–4.7 BATTERY IS TO BE REPLACED BY 8–4.7 50 CAL AA GUNS IN TWIN SHIELD MOUNTS



PROTECTION

BELTS—	3″—4″
TURRETS—	3″
BARBETTES—	2½″—3½″
CONNING TOWER—	
DECK—	3″—5″

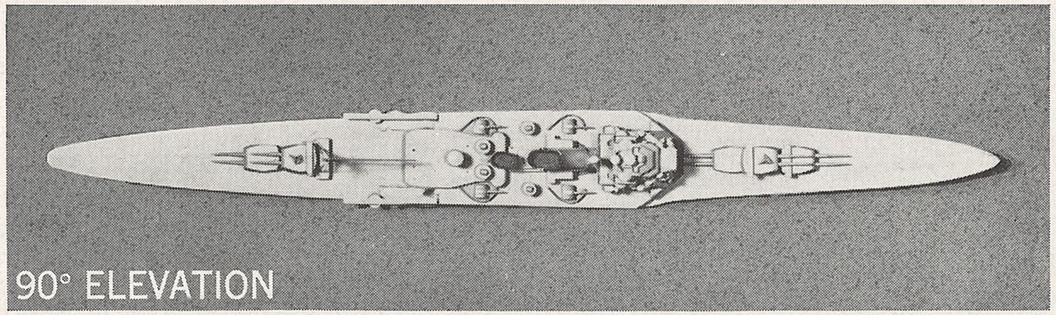


KNOTS	RPM
	420
	400
	350
	300
	275
	250
	245
	220
	200
	160
	150
	120
	80

DES SPEED 33 KTS — DES HP 100,000

ATAGO CLASS—CA9-10

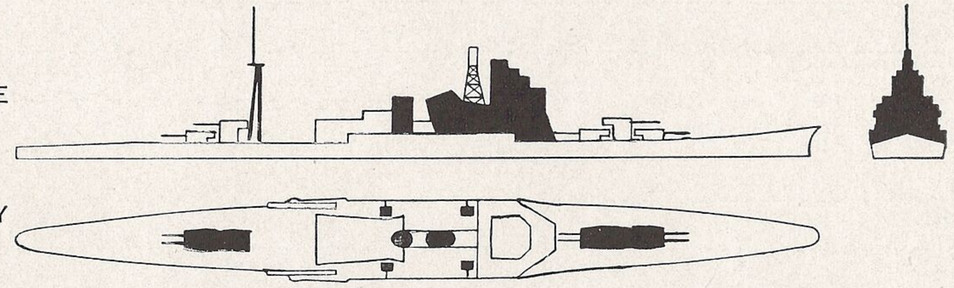
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —OCTOBER, 1942

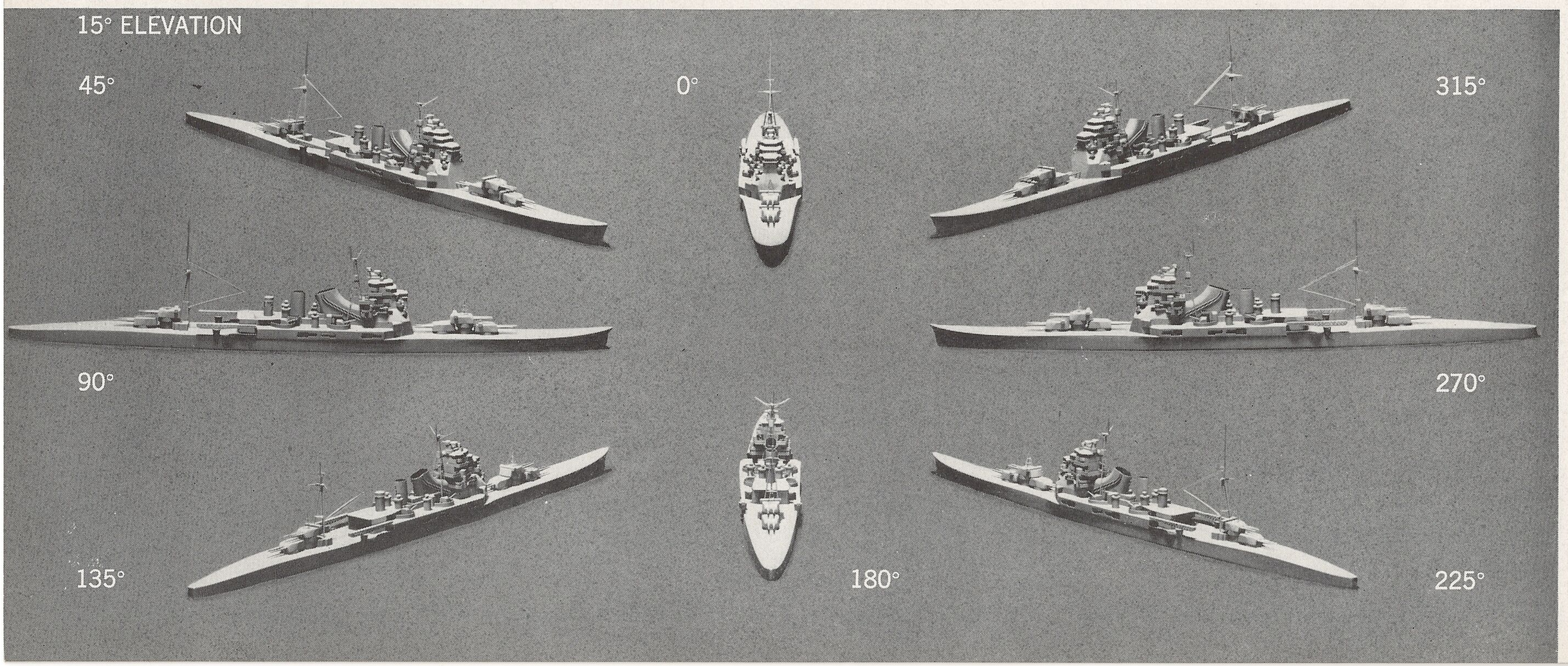


PROFILE–PYLON FORE-MAST, HEAVY BRIDGE TRIPOD MAINMAST STACKS–JAP RAKE FOR'D UPRIGHT SINGLE PIPE AFT

AERIAL–TURRETS—THREE TWINS FOR'D TWO TWINS AFT AMIDSHIPS–SECONDARY

END ON–FLARED HULL FULL WIDTH PYRAMID SUPERSTRUCTURE

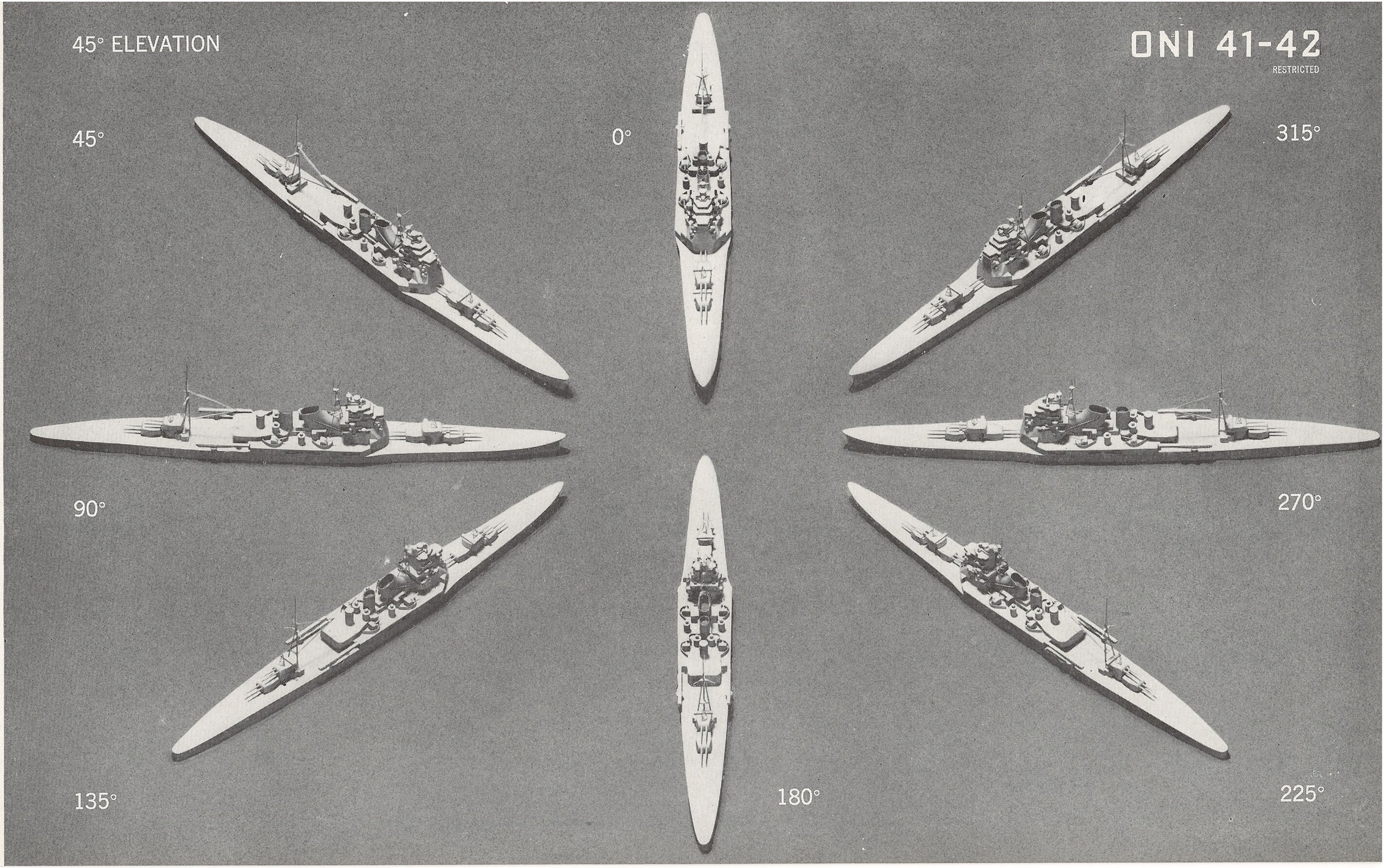




45° ELEVATION

ONI 41-42

RESTRICTED



ATAGO CLASS—CA 9-10

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—OCTOBER, 1942

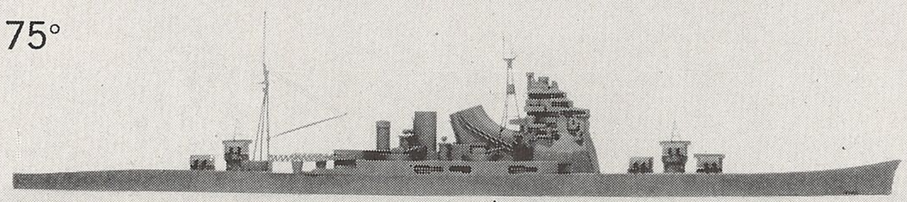
0°

10°

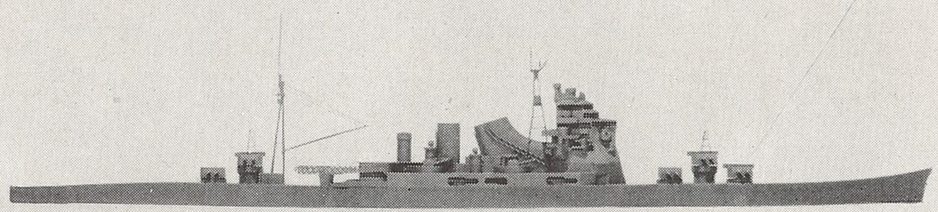
20°

30°

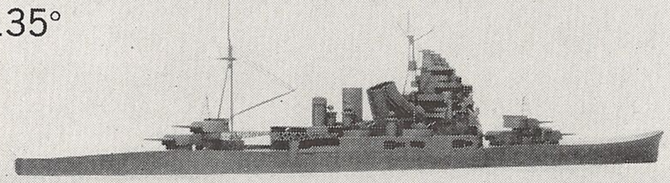
75°



90°



135°

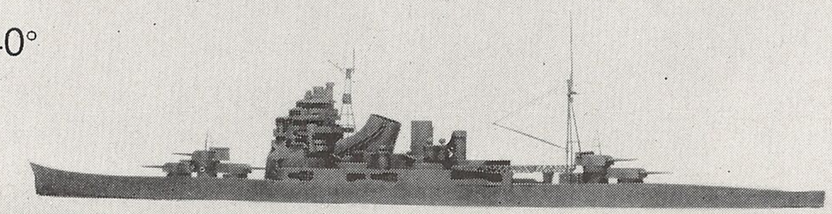


150°

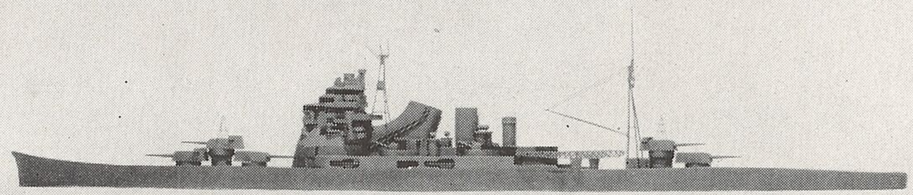
165°

180°

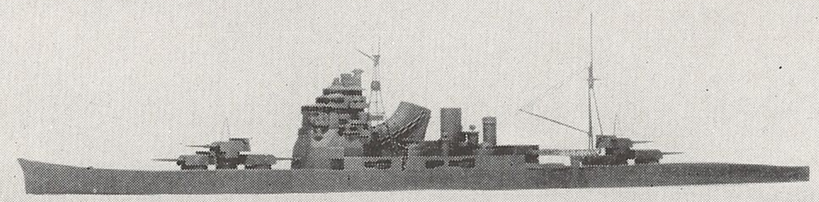
240°



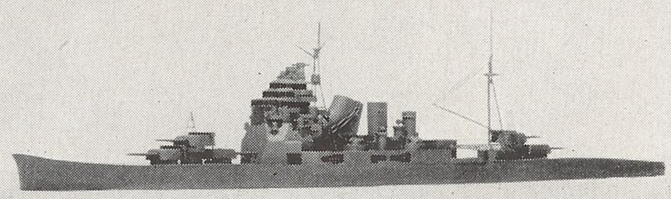
255°



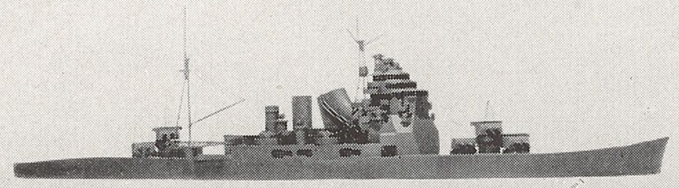
300°



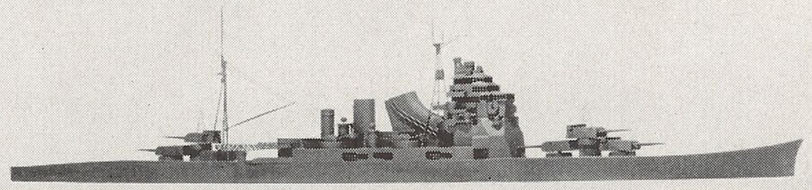
315°



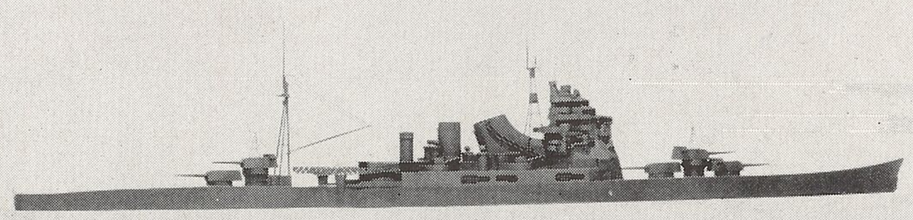
45°



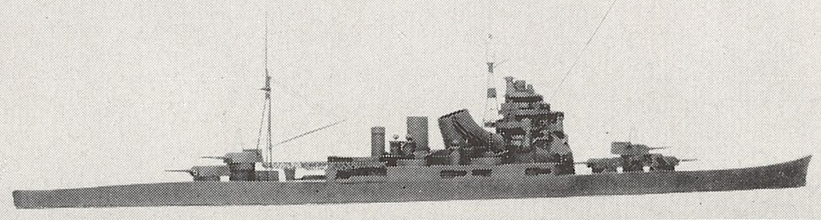
60°



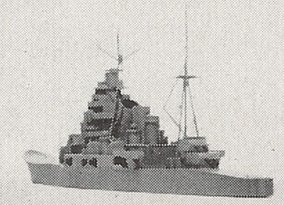
105°



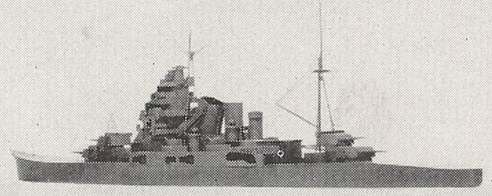
120°



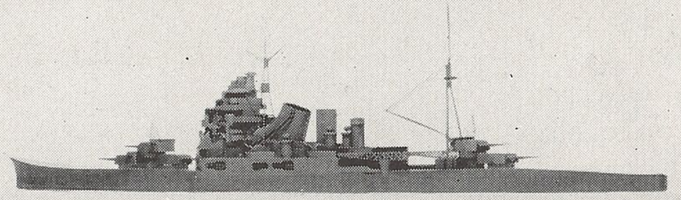
195°



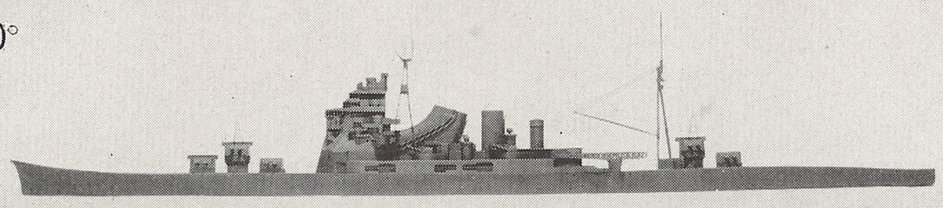
210°



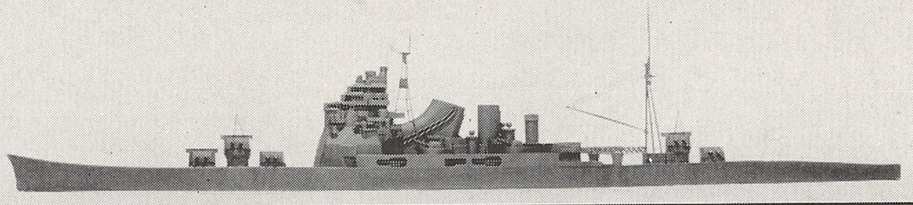
225°



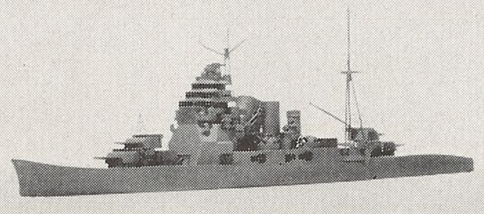
270°



285°

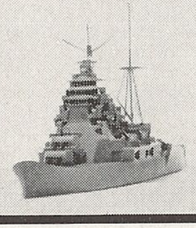


330°



340°

350°



355°

ATAGO CLASS—CA9-10

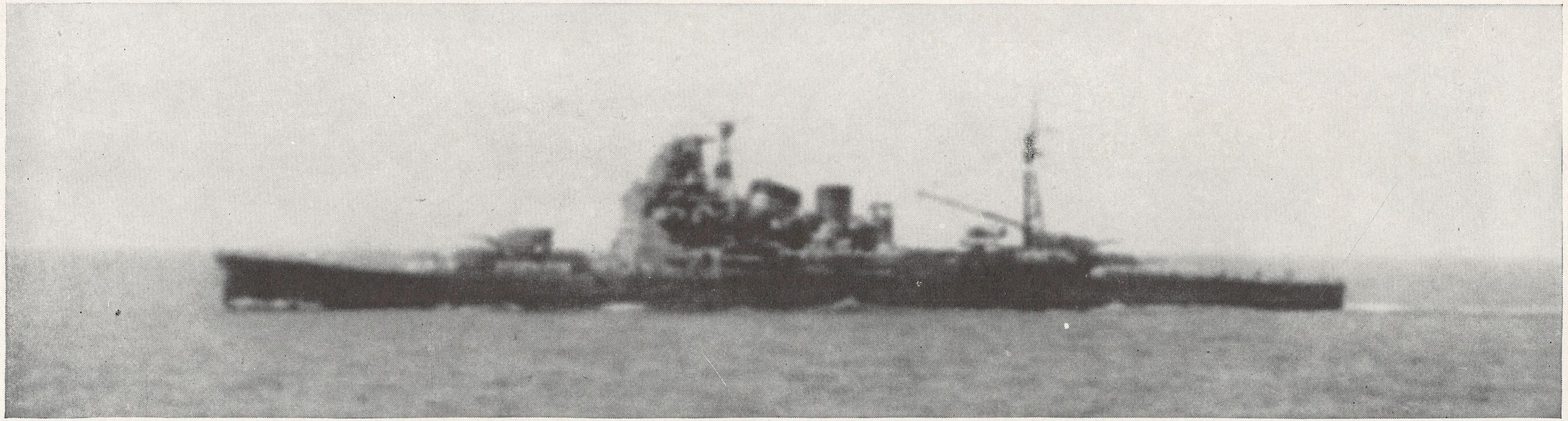
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—OCTOBER, 1942

	BEGUN	COMPLETED
ATAGO—CA9	4/28/27	3/30/32
TAKAO—CA10	4/28/27	5/31/32

TWO OTHER UNITS—CHOKAI (TYOKAI), MAYA—RETAIN ORIGINAL PROFILE

ONI 41-42

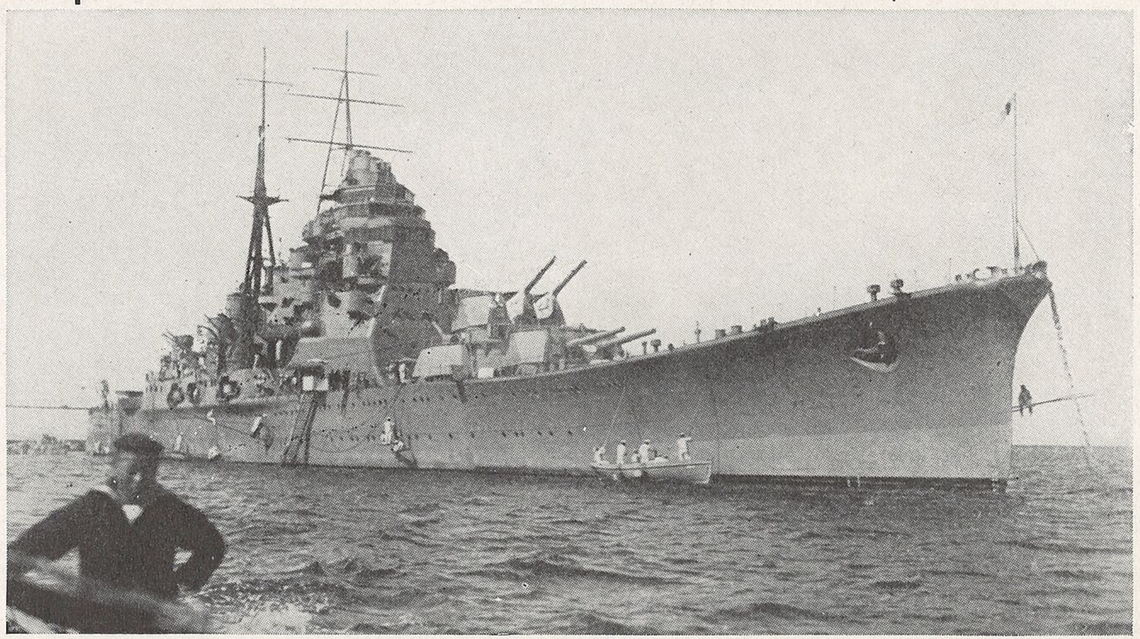
RESTRICTED



1941 ↓

TAKAO—1941 ↑

↓ ATAGO OLD RIG

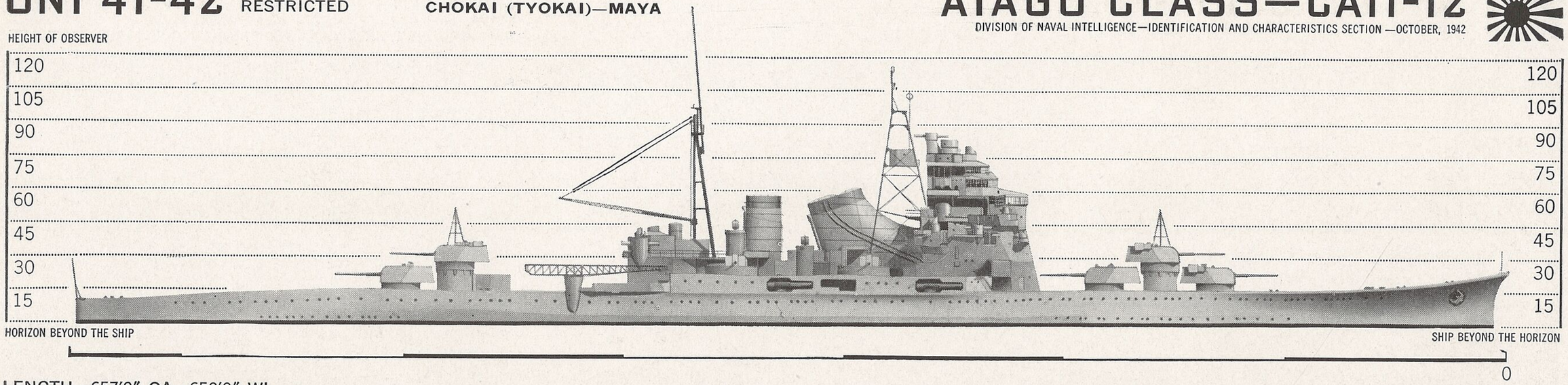


ONI 41-42 RESTRICTED

CHOKAI (TYOKAI)—MAYA

ATAGO CLASS—CA11-12

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —OCTOBER, 1942



LENGTH—657′0″ OA—650′0″ WL
BEAM —62′4″
DRAFT —19′8″ (FULL LOAD)
16′5″ (MEAN)

DISPLACEMENT—
9,850 TONS (STANDARD)

↓ JUNE, 1940

ARMAMENT

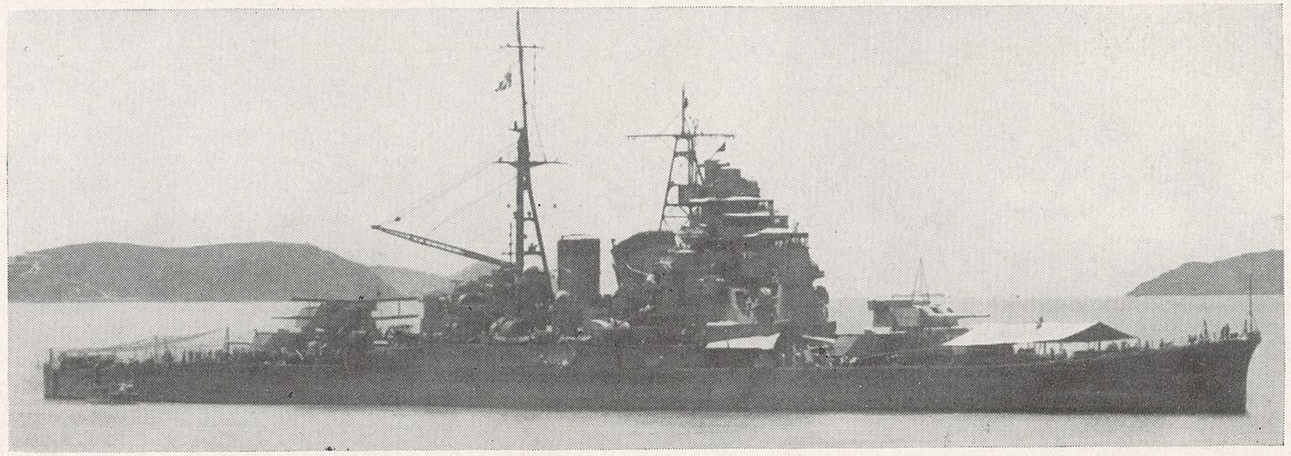
		MAX. ELEV.	RANGE
10–8″	50 CAL TWIN TURRETS	35°	32,600
4–4″.7	50 CAL AA SINGLE SHIELD MOUNTS	85°	21,000
8–21″	TORPEDO TUBES		
2 CATAPULTS—4 SEAPLANE SCOUTS			

PROTECTION

BELT	—3″–4″
TURRETS	—3″
BARBETTES	—2½″–3½″
DECK	—3″–5″

PROPULSION

MACHINERY	—8 GEARED TURBINES
FUEL	—OIL—2400 TONS
DESIGNED HP	—100,000
DESIGNED SPD.	—33 KTS.

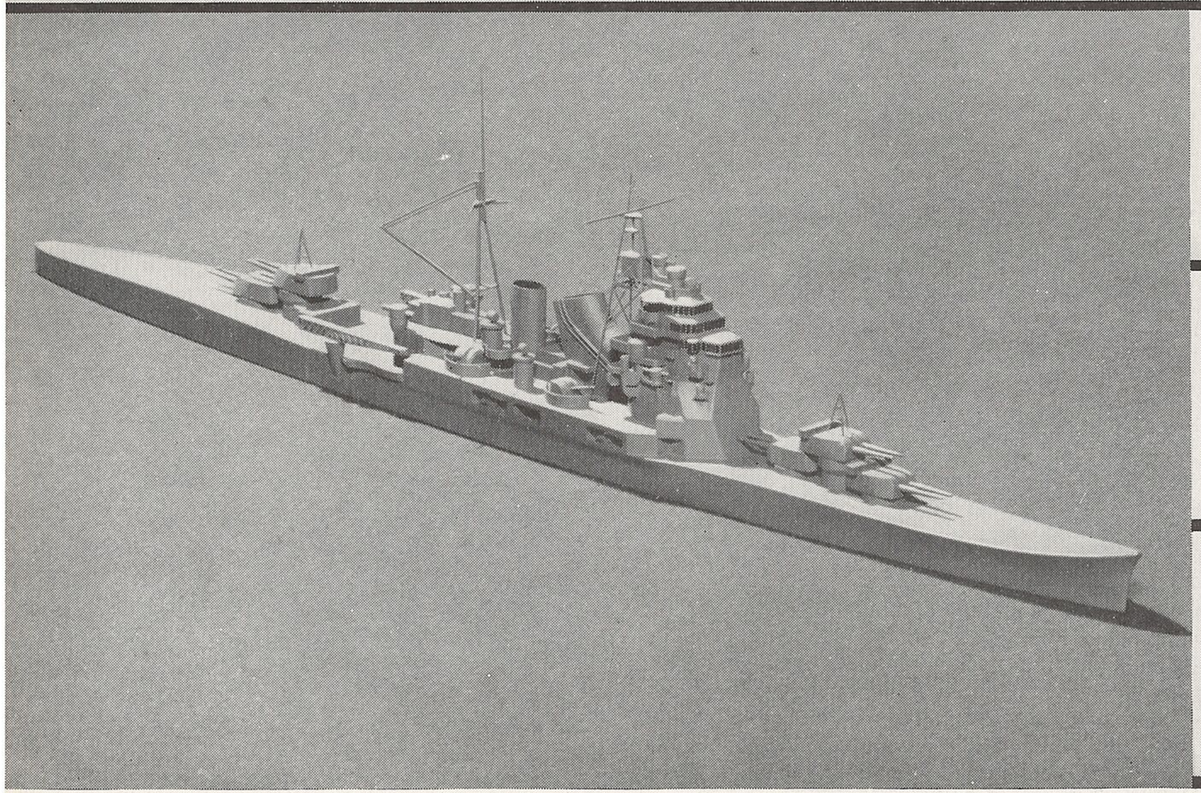


ATAGO CLASS—CA11-12

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—OCTOBER, 1942

	BEGUN	COMPLETED
CHOKAI—CA11	3 /26/28	6/30/32
MAYA —CA12	12/4 /28	6/30/32

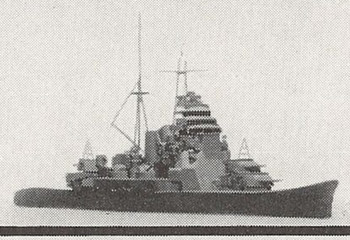
TWO OTHER UNITS—ATAGO, TAKAO HAVE MAINMAST AFT



0°

10°

20°

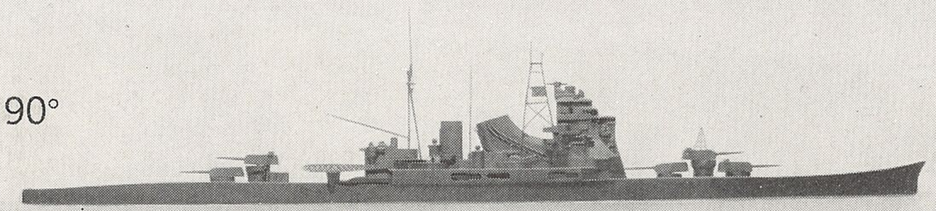


30°

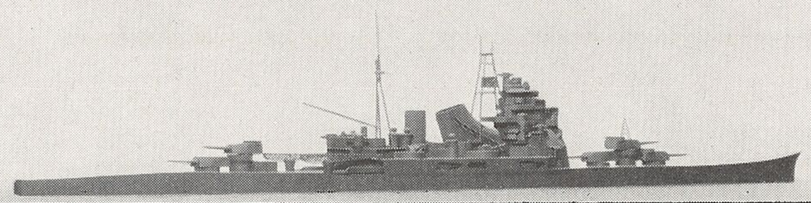
45°

60°

90°



120°



150°

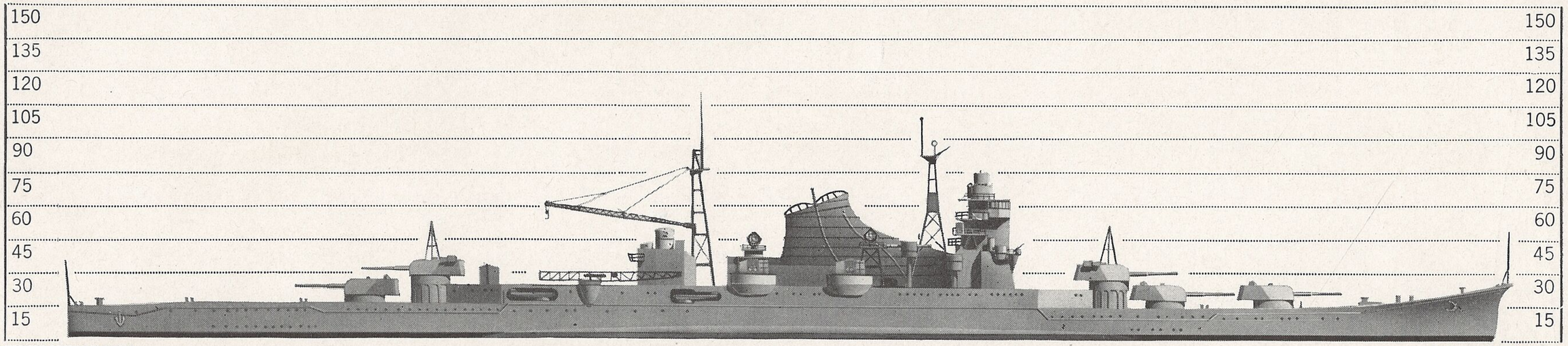
165°

ONI 41-42 RESTRICTED

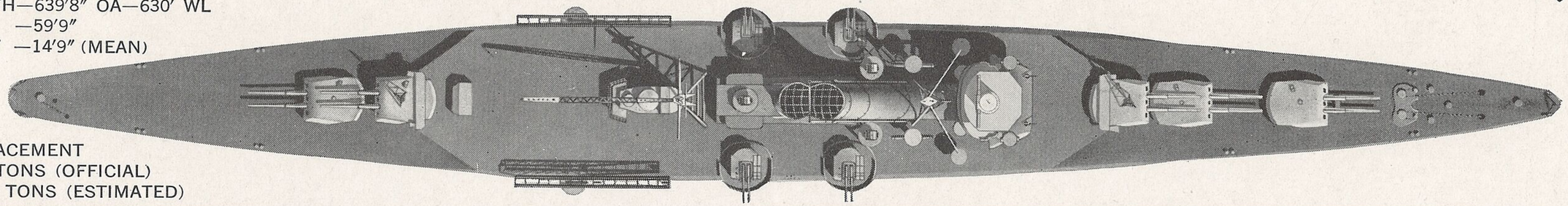
MOGAMI—SUZUYA—KUMANO

MOGAMI CLASS—CA 13-16

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—OCTOBER, 1942

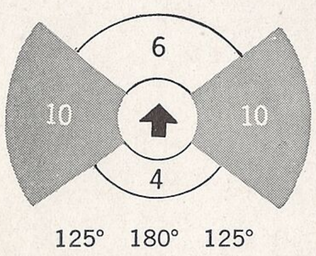


LENGTH—639′8″ OA—630′ WL
BEAM —59′9″
DRAFT —14′9″ (MEAN)



DISPLACEMENT
8,500 TONS (OFFICIAL)
14,000 TONS (ESTIMATED)

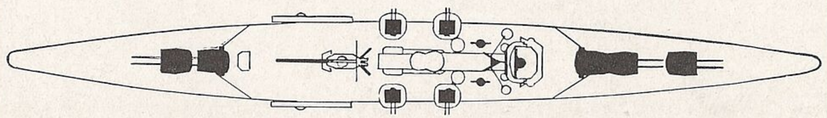
DENSITY OF FIRE
MAIN BATTERY



ARMAMENT

	MAX. ELEV.	RANGE
10–8″ 50 CAL TWIN TURRETS	35°	32,600 YD.
8–5″ 50 CAL AA TWIN SHIELD MOUNTS	85°	18,000 YD.
4–3″ 40 CAL AA (REPORTED)	85°	9,000 YD.

12–21″ TORPEDO TUBES (TRIPLE MOUNTS)
2 CATAPULTS—4 SEAPLANE SCOUTS
DEPTH CHARGES CARRIED

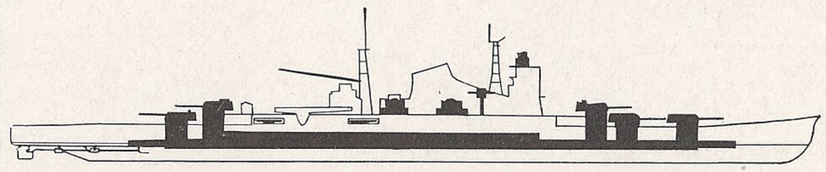


PROTECTION

BELT—2½″
TURRETS—
BARBETTES—
CONNING TOWER—
DECKS—2″
(OVER VITALS)

PROPULSION

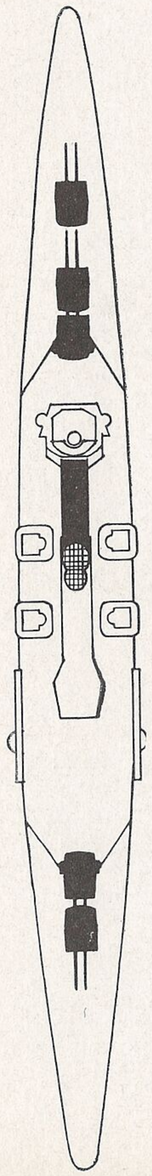
MACHINERY—4 (MAIN)—2 (CRUISING) GEARED TURBINES
BOILERS—8 OR 10 KAMPON
FUEL—OIL—2400 TONS
DESIGNED HP—90,000
DESIGNED SPEED—33 KTS
ENDURANCE—2,800 @ 33 KTS
10,000 @ 15 KTS



KNOTS	RPM
	420
	400
	350
	300
33	290
	275
	250
	245
	240
	220
	200
	160
	150
	120
	80

MOGAMI CLASS CA 13-16

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —DECEMBER, 1942

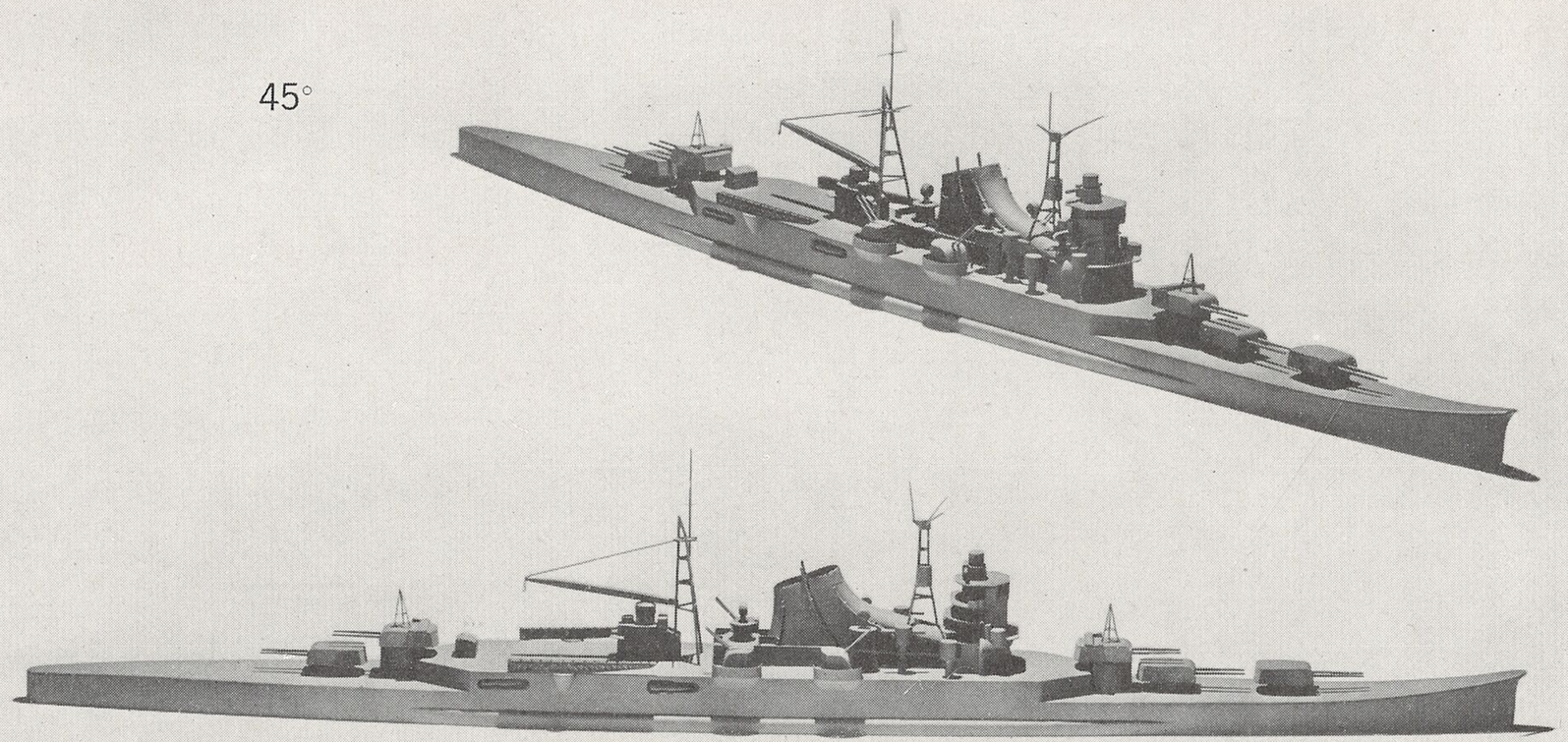


PROFILE– →
OVERSIZE J. R. STACK
UNDERSIZE TOWER BRIDGE
TRIPOD FOREMAST
TRIPOD MAINMAST

AERIAL–
TURRETS
FOR'D–TWIN SINGLE AND SUPERIMPOSED
AFT–TWIN SUPERIMPOSED
←

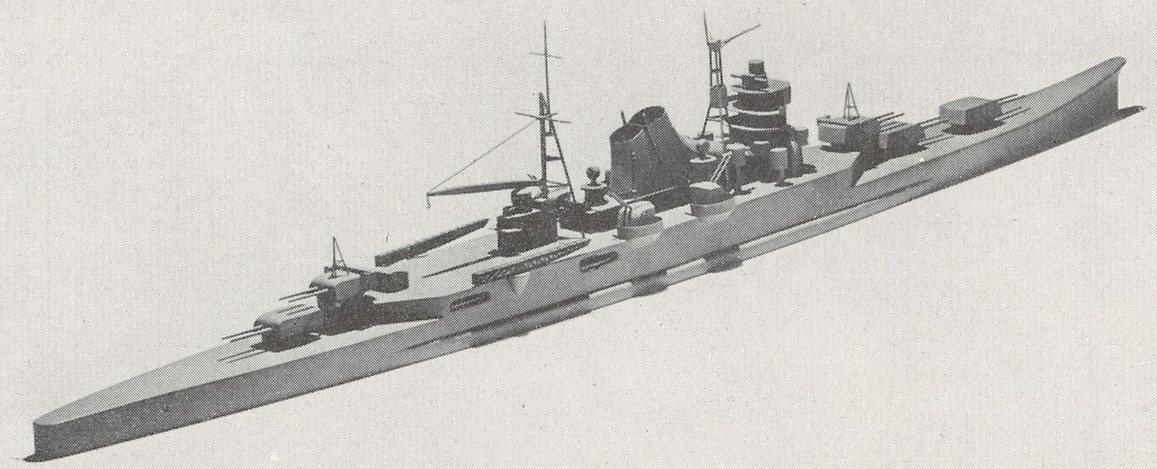
↑
END-ON–
PROMINENT SPONSONS
LOW, SLENDER BRIDGE

45°



90°

135°



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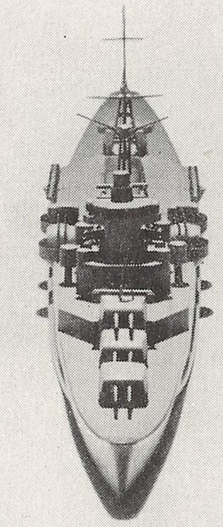

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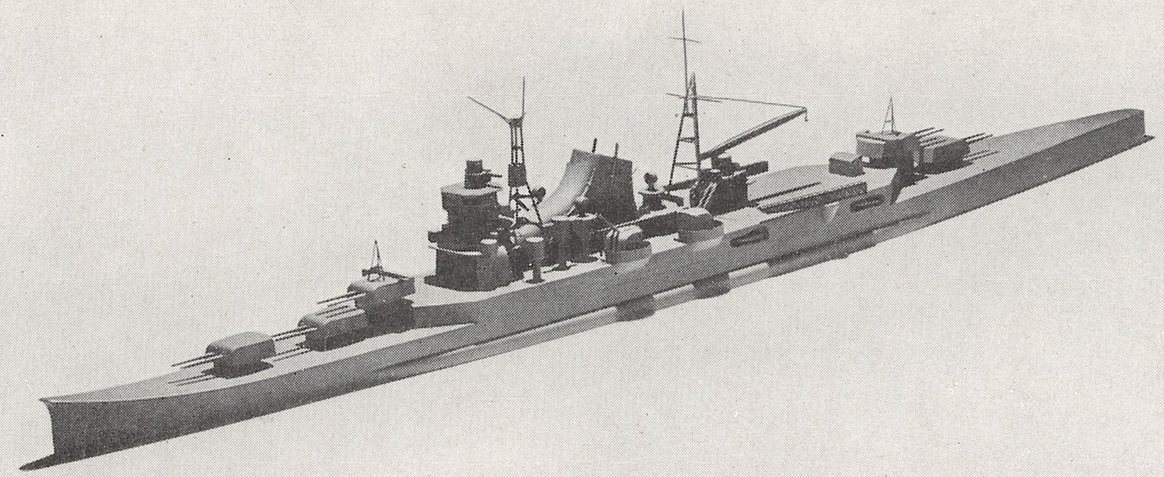
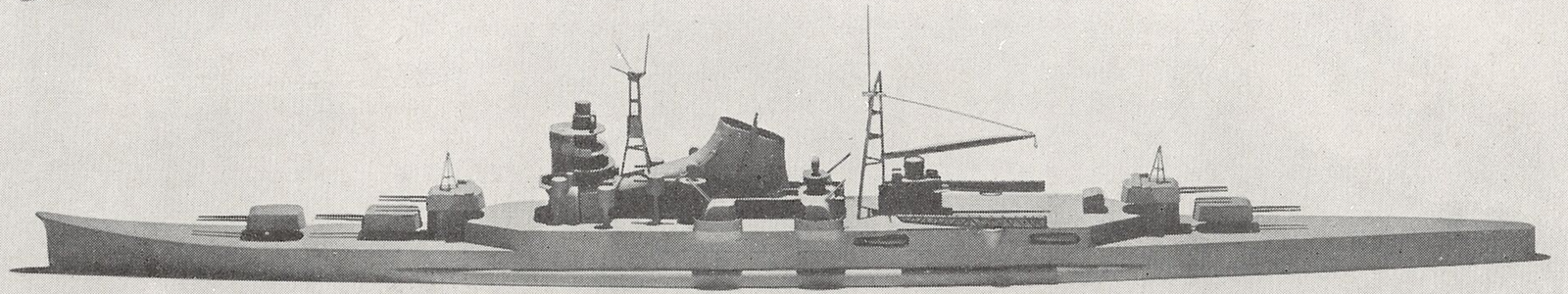
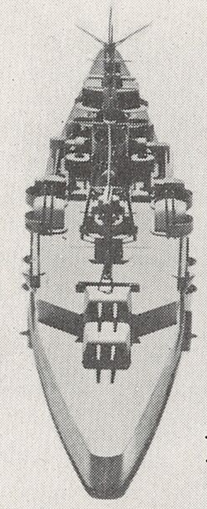
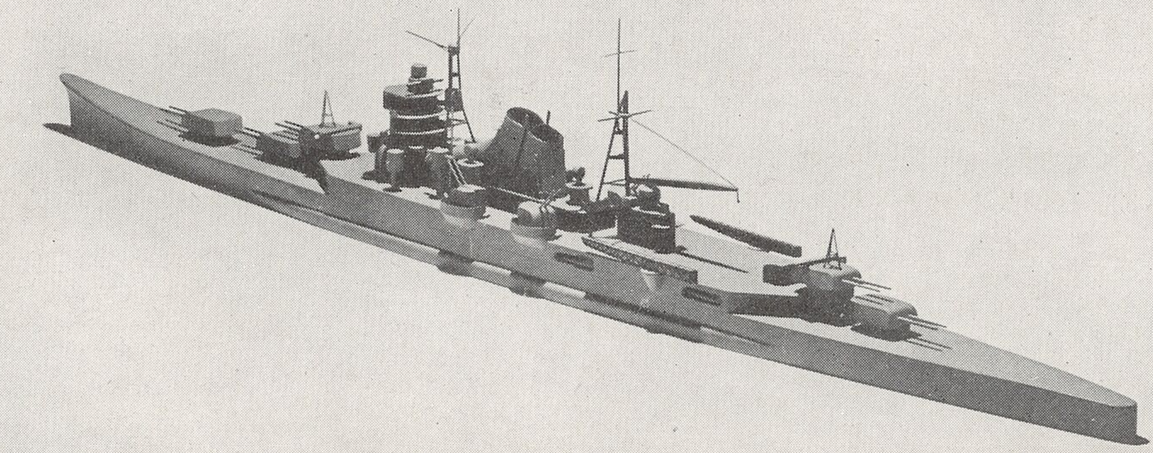




270°



180°



225°

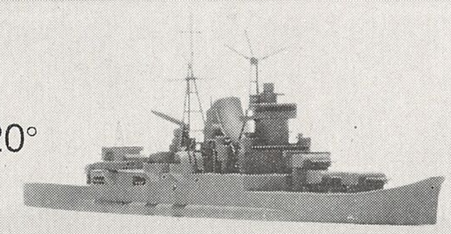
MOGAMI CLASS—CA 13-16

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—NOVEMBER, 1942

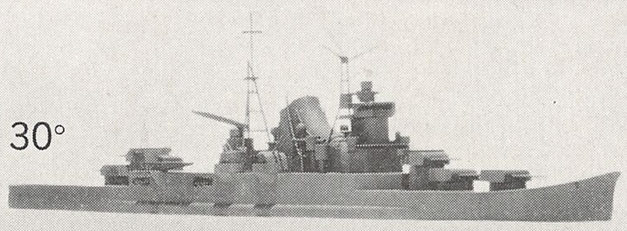
0°

10°

20°

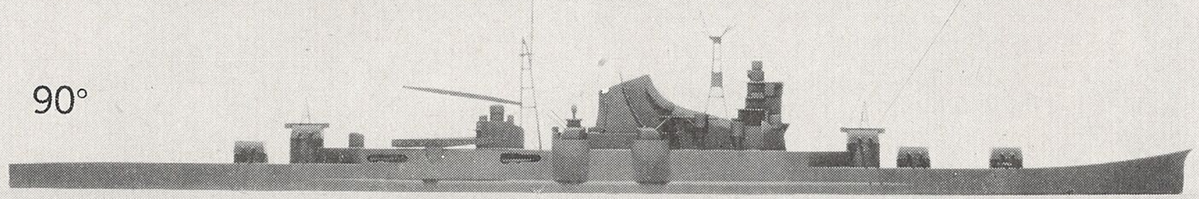


30°

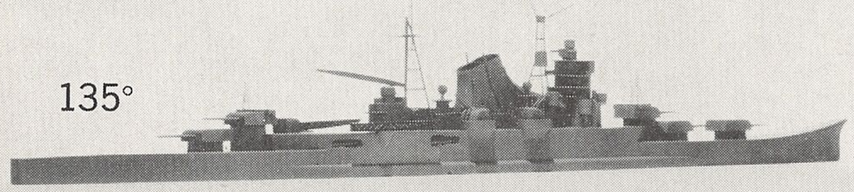


75°

90°



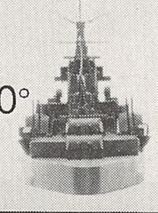
135°



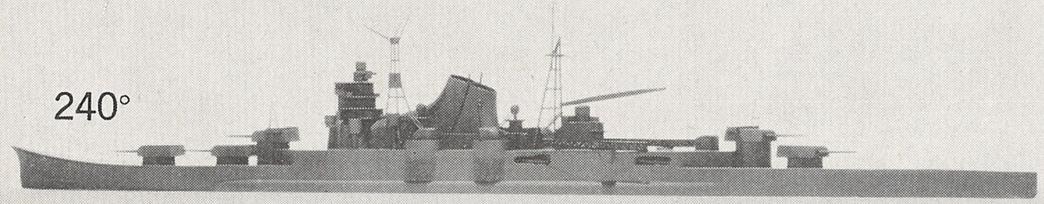
150°

165°

180°

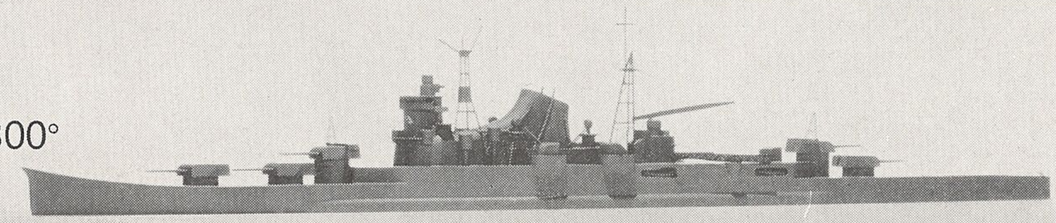


240°



255°

300°



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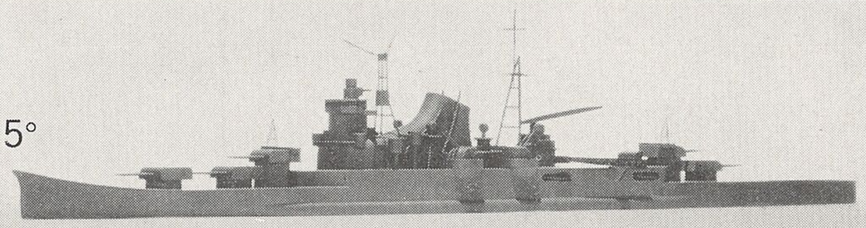
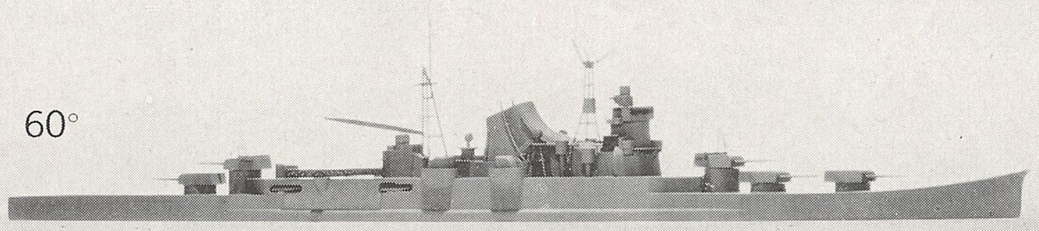


45°

60°



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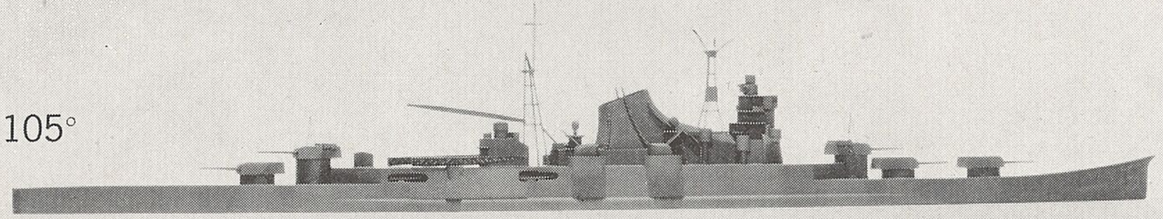

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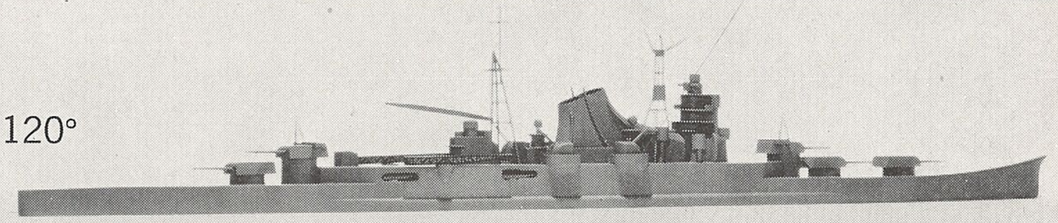

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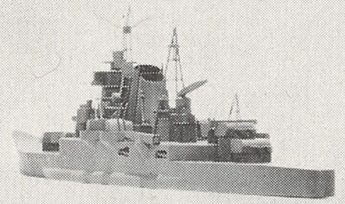
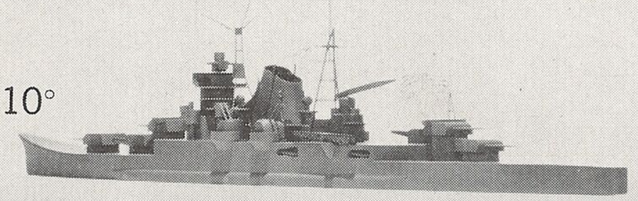


210°



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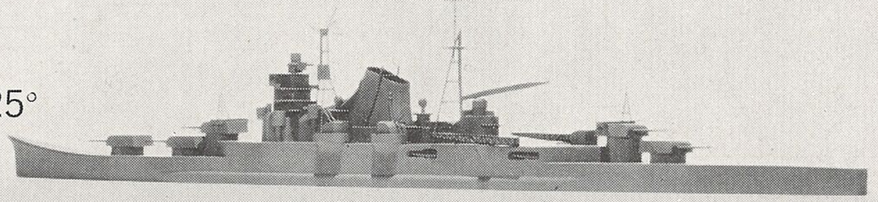
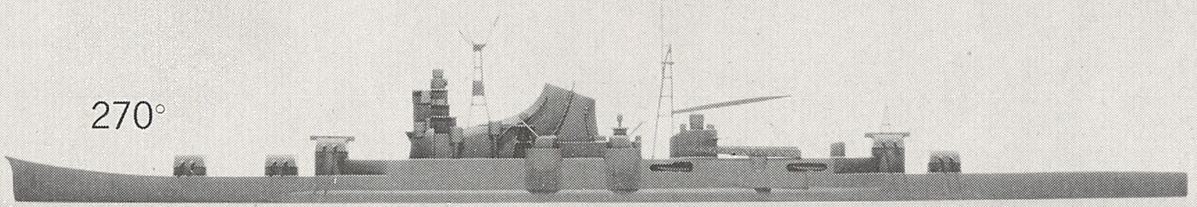


270°



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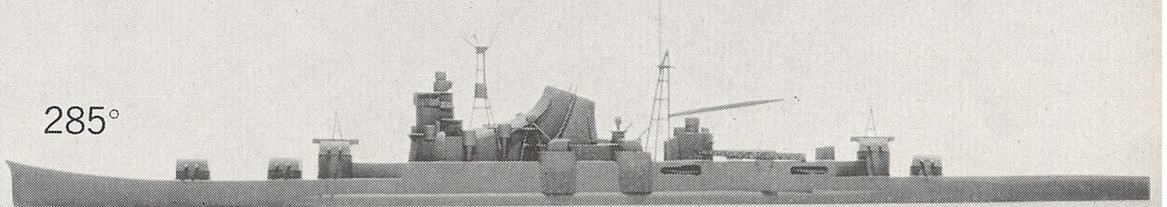
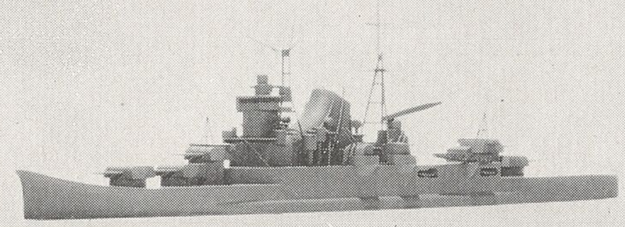
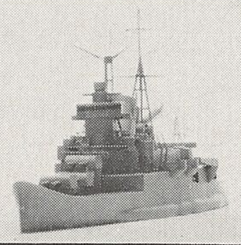


330°



340°

350°



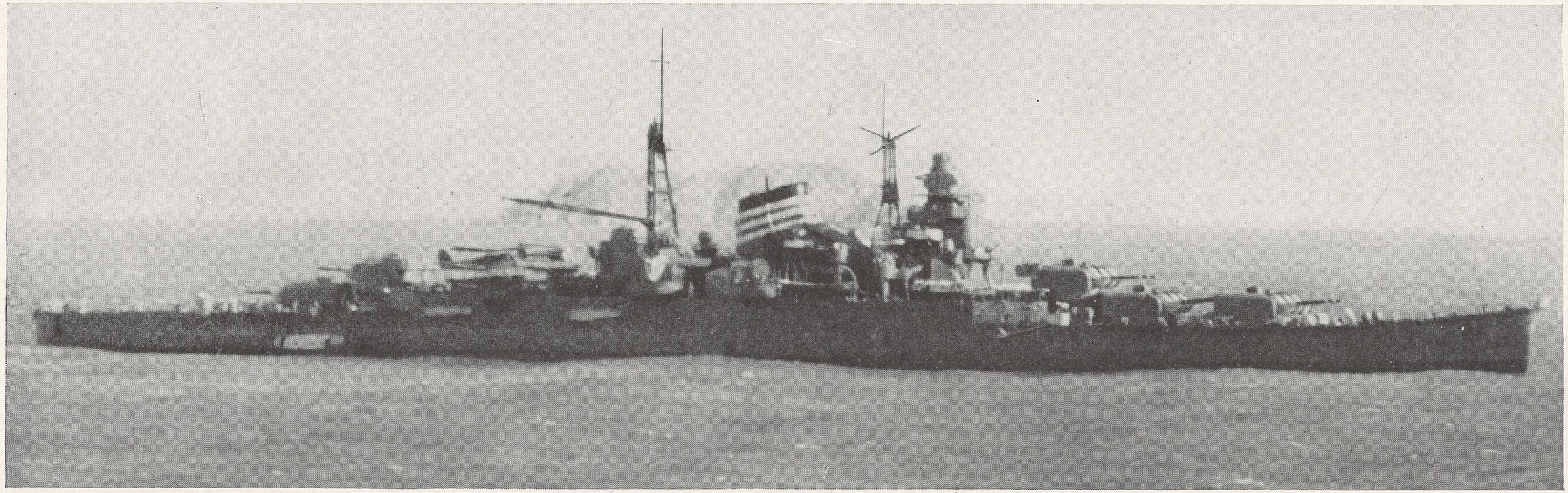
355°

MOGAMI CLASS—CA13-16

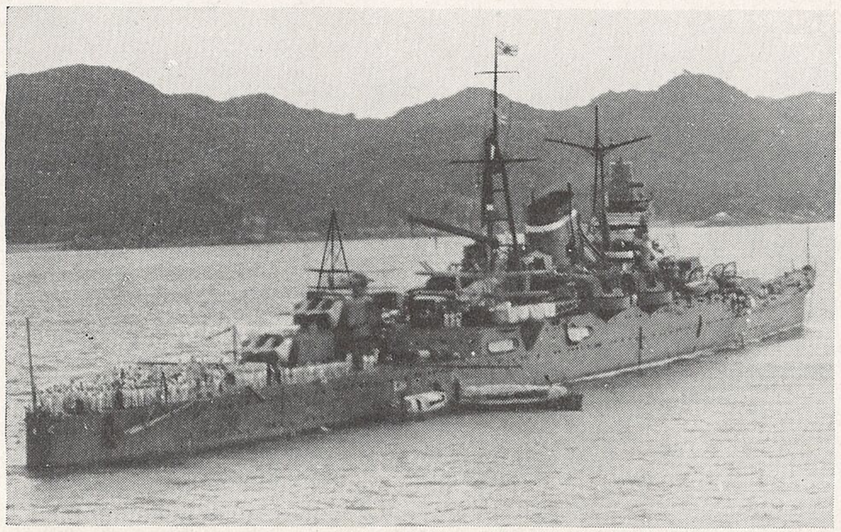
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—OCTOBER, 1942

	BEGUN	COMPLETED			
MOGAMI—CA13	10/27/31	7/28/35	SUZUYA —CA15	12/11/33	1936
MIKUMA—CA14	SUNK		KUMANO—CA16	4/ 4/34	10/31/37

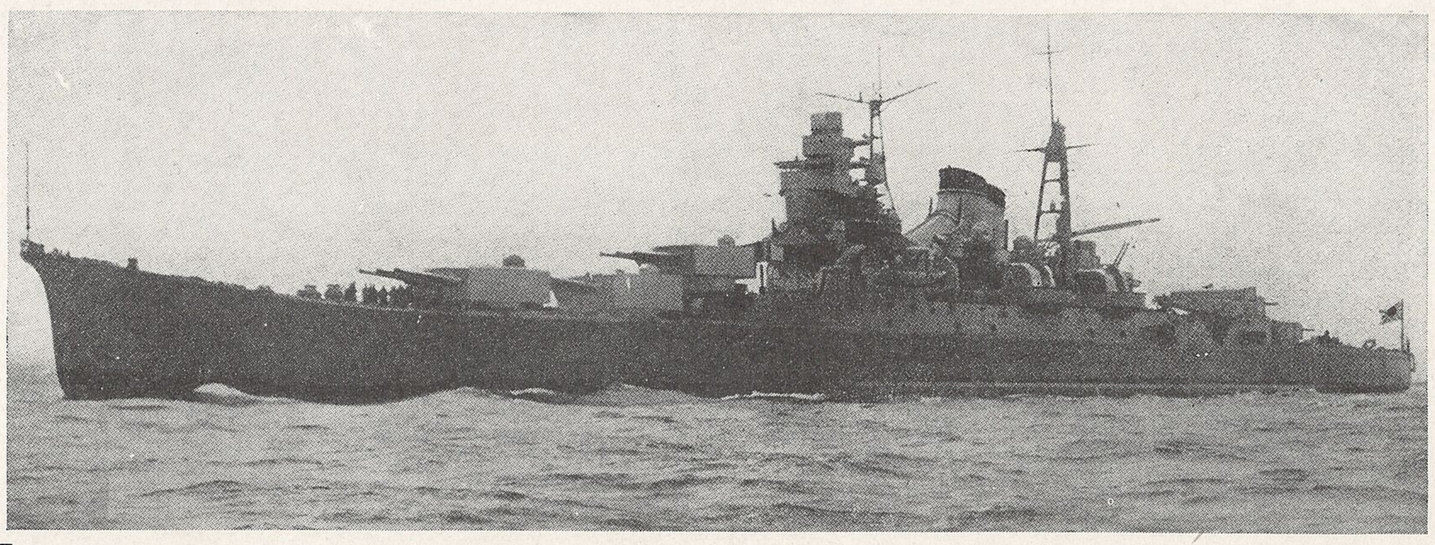
RESTRICTED



KUMANO—DEC. 19, 1938 ↓



SUZUYA—DEC. 19, 1938 ↑



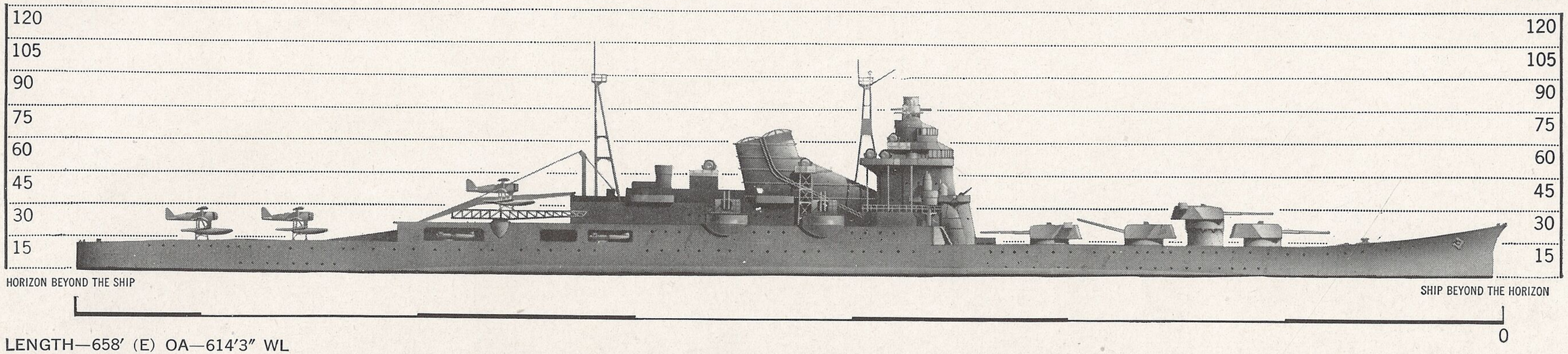
KUMANO—OCT. 1938 ↓

PHOTOS SHOW OLD TRIPLE TURRETS, PREVIOUS TO 1938–39 REFIT

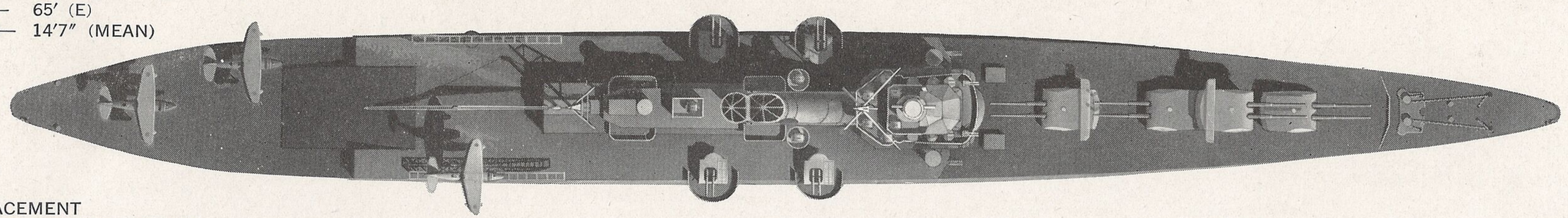
ONI 41-42 RESTRICTED

TONE CLASS—CAI7, 18

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL, 1943

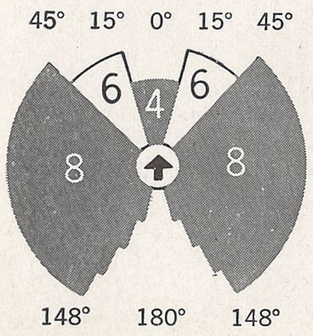


LENGTH—658′ (E) OA—614′3″ WL
BEAM— 65′ (E)
DRAFT— 14′7″ (MEAN)



DISPLACEMENT
12,000 TONS STANDARD (E)

DENSITY OF FIRE
MAIN BATTERY



ARMAMENT

	MAX. ELEV.	RANGE
8–8″ (50)	45°?	32,800 YD.
8–5″ (50) AA	85°	19,000 YD.
8–3″ (40) AA (?)	85°	9,000 YD.

6 SCOUT OBSERVATION; 2 CATAPULTS
12–24″ TORPEDO TUBES

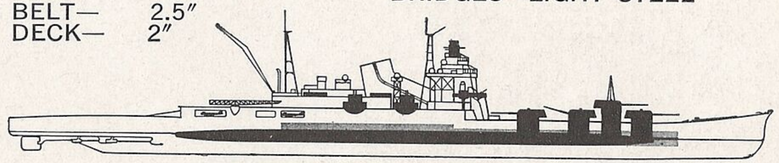
PROPULSION

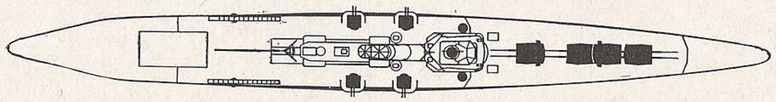
MACHINERY— FOUR GEARED TURBINE ENGINES
BOILERS— EIGHT KAMPON
FUEL— OIL, 2,400 TONS
DESIGNED HP— 90,000
CRUISING SPEED—15 KNOTS
MAXIMUM SPEED—33 KNOTS
PROPELLERS— FOUR
SEARCHLIGHTS— THREE

PROTECTION

BELT— 2.5″
DECK— 2″

BRIDGES—LIGHT STEEL





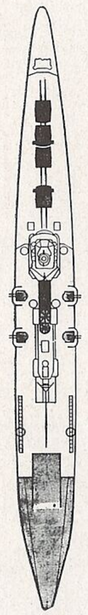
TONE CLASS

TONE—CA 17

CHIKUMA—CA 18

TONE CLASS
CA 17, 18

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL, 1943



AERIAL
FOUR TWIN TURRETS FOR'D
AIRCRAFT RAMP AFT
CRUISER HULL, BROKEN UPWARDS.

PROFILE
TOWER BRIDGE
TRIPOD FOREMAST & MAINMAST
LARGE JAP RAKED STACK

MISTAKEN IDENTITY

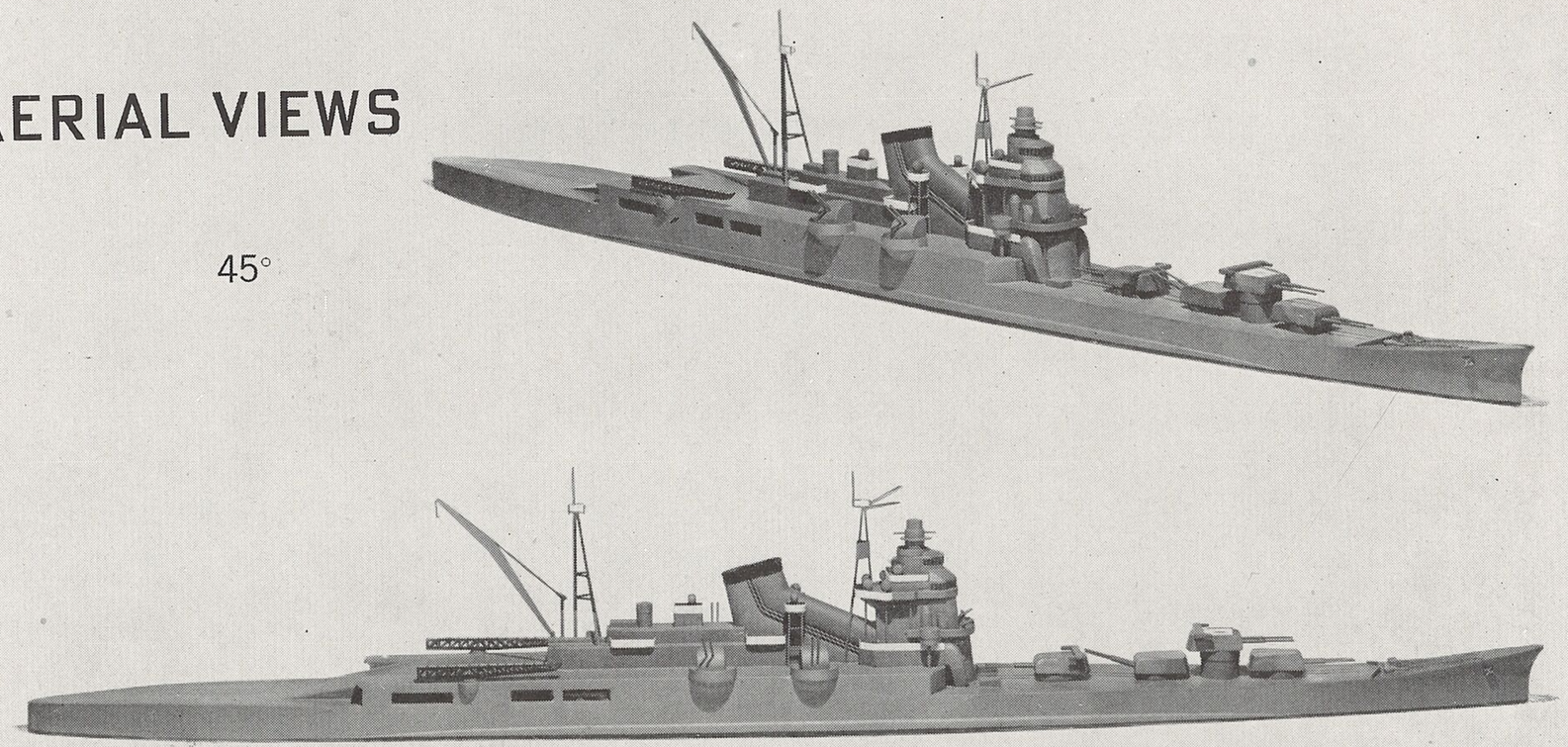
TONE CLASS—CA 17, 18

MOGAMI CLASS—CA 13-16

DD UNKNOWN 1 CLASS

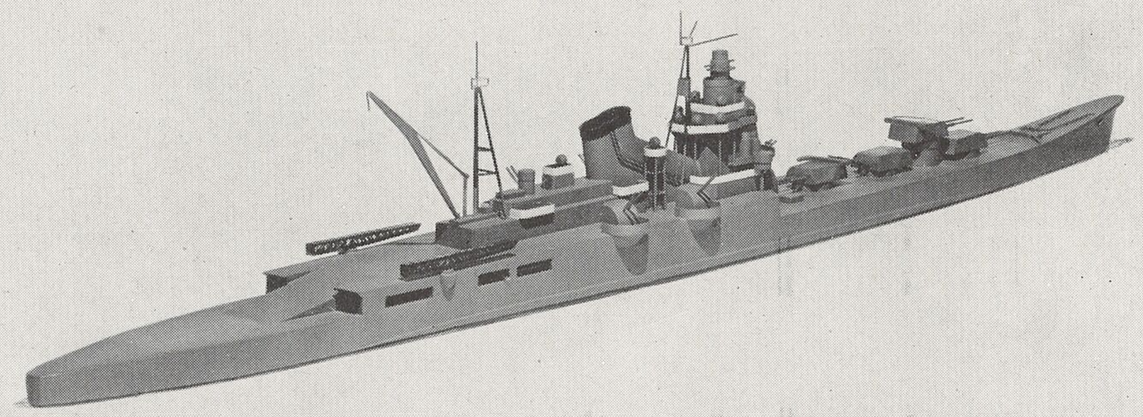
AERIAL VIEWS

45°



90°

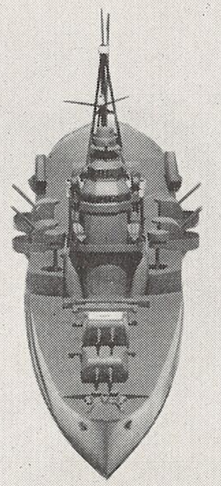
135°

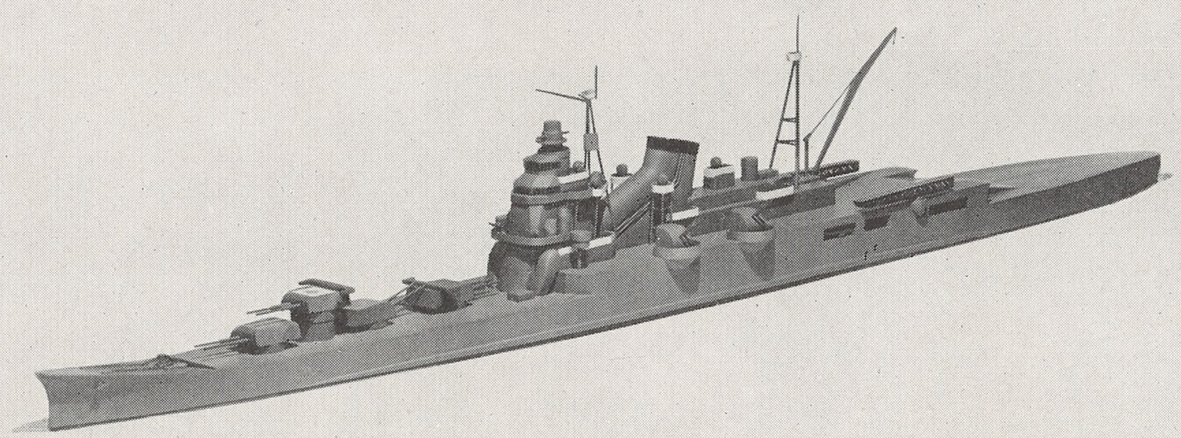


15° ELEVATION

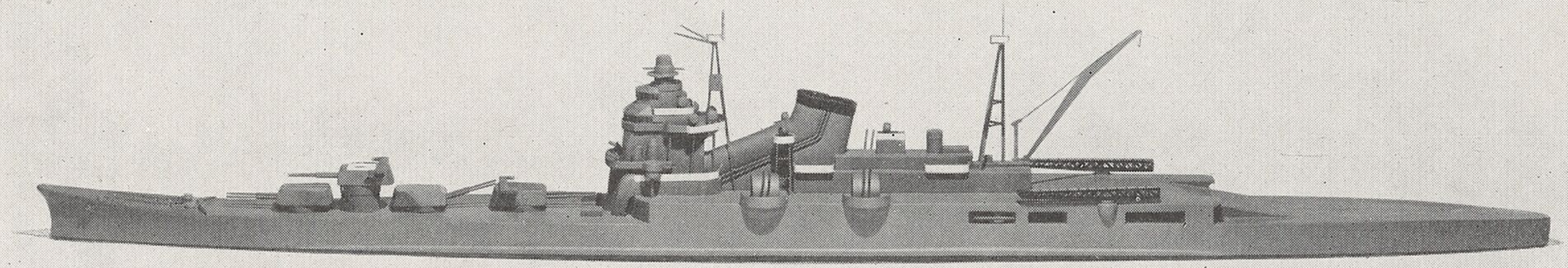
ONI 41-42

0°



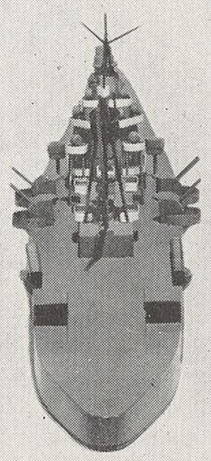


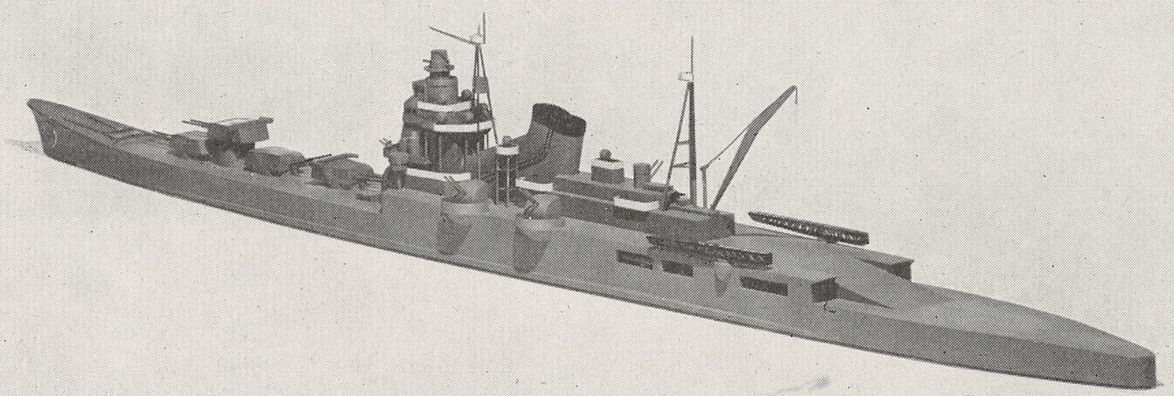
315°



270°

180°





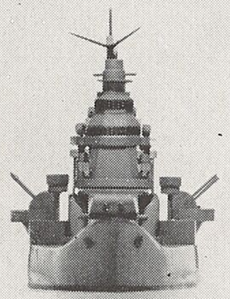
225°

TONE CLASS—CA 17, 18

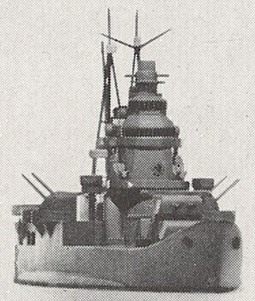
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

TARGET ANGLES

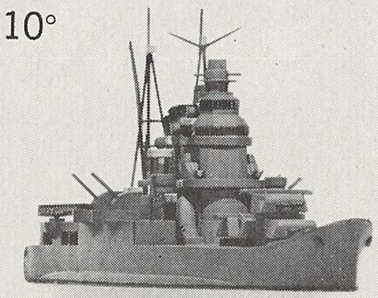
0°



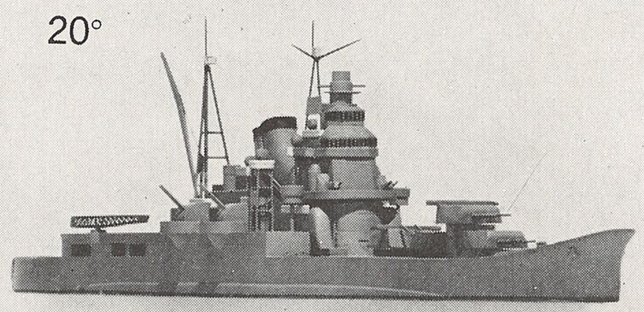
5°



10°



20°

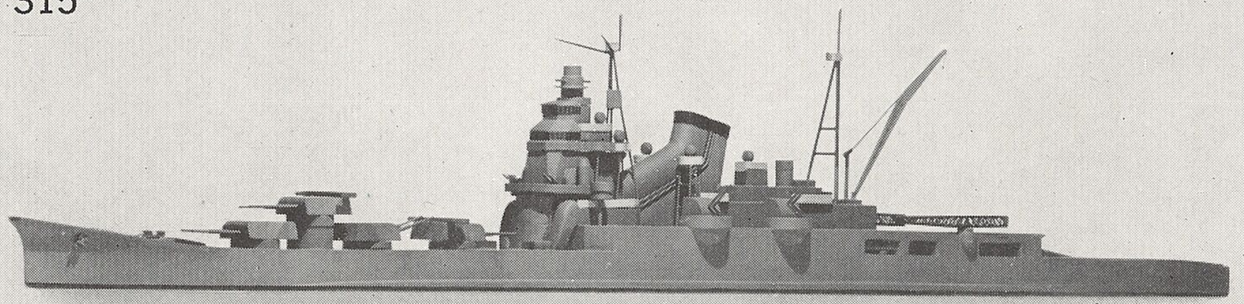


150°

165°

195°

315°



330°

KNOTS	RPM
	400
	375
	350
	325

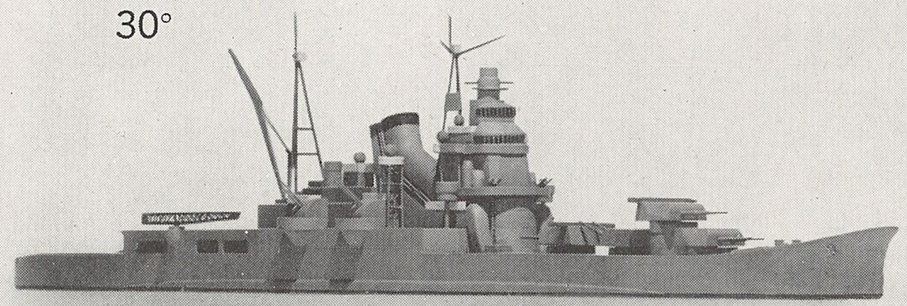
KNOTS	RPM
	290
	275
	250
	225

KNOTS	RPM
	200
	175
	150
	125

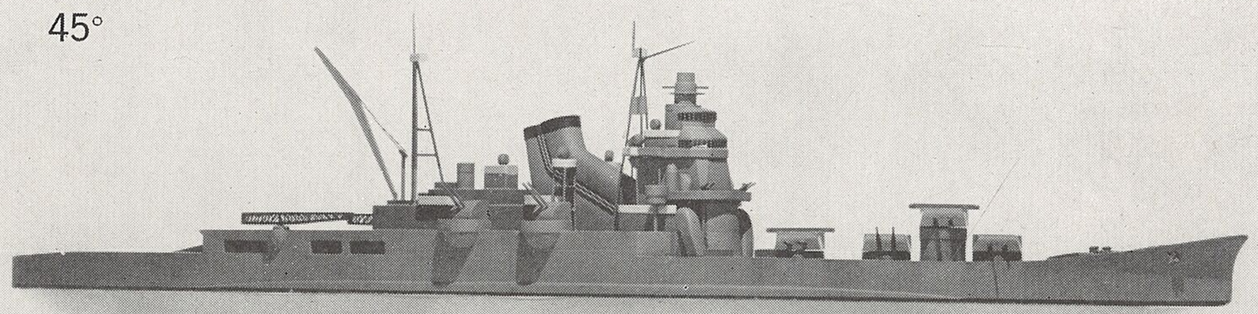
KNOTS	RPM
	100
	75
	50
	25

ONI 41-42

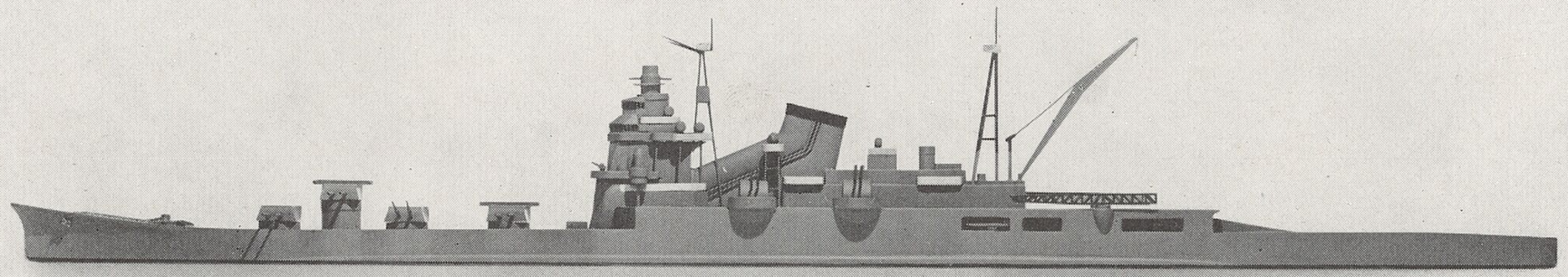
30°



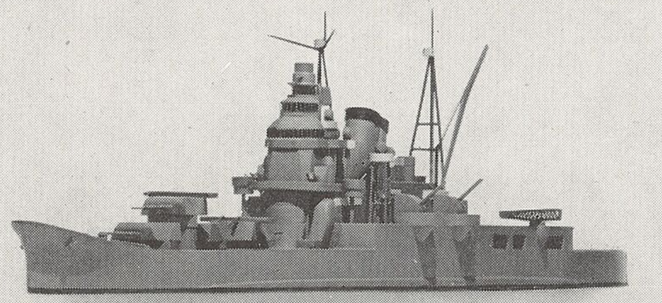
45°



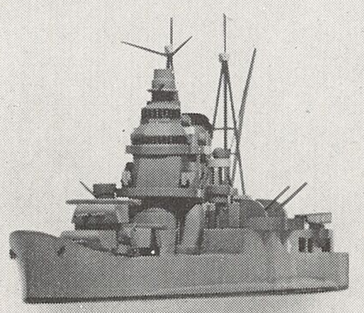
270°



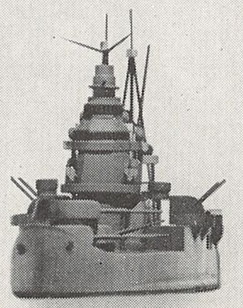
340°



350°



355°



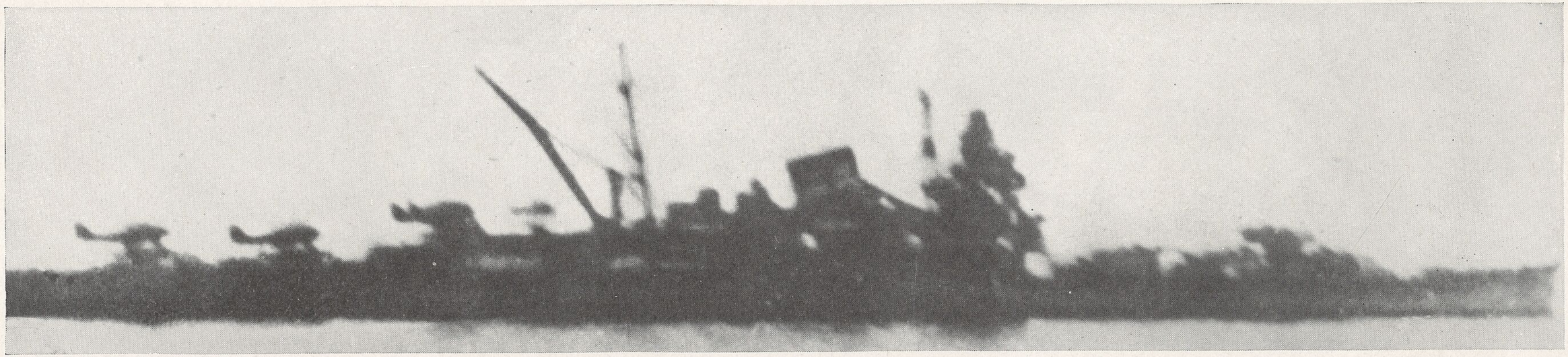
TONE CLASS—CA 17, 18

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

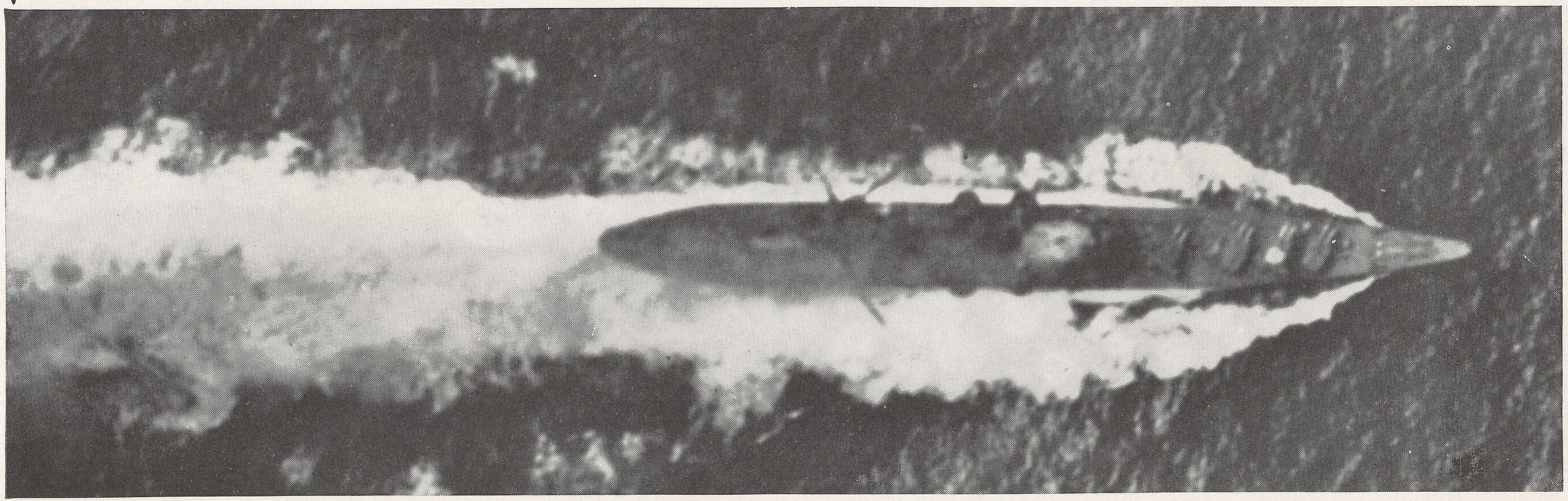
	BEGUN	COMPLETED
TONE— CA17	12/1/34	11/20/38
CHIKUMA—CA18	10/1/35	3/?/39

ONI 41-42

RESTRICTED

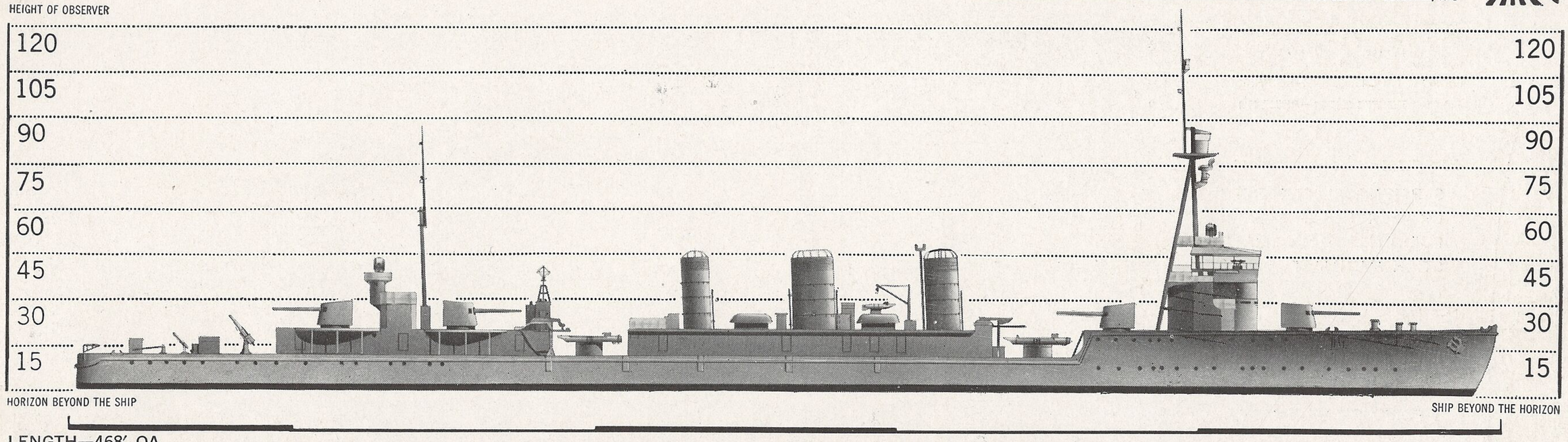


↓ SANTA CRUZ, 10/26/42

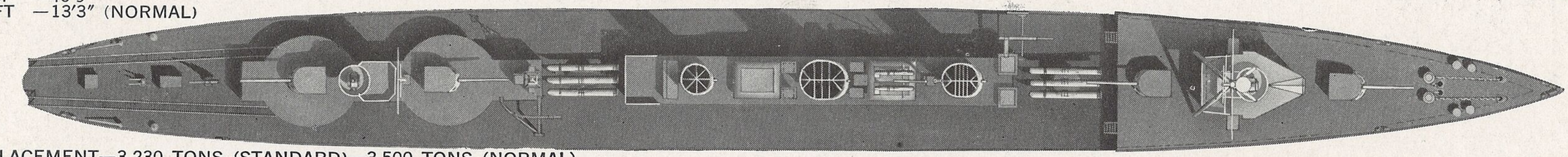


TENRYU CLASS—CL 1, 2

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—DECEMBER, 1942



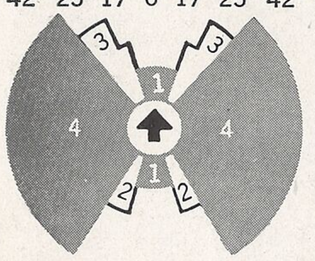
LENGTH—468′ OA
BEAM —40′9″
DRAFT —13′3″ (NORMAL)



DISPLACEMENT—3,230 TONS (STANDARD)—3,500 TONS (NORMAL)

DENSITY OF FIRE
MAIN BATTERY

42° 25° 17° 0° 17° 25° 42°



148° 162° 180° 162° 148°

ARMAMENT

	MAX. ELEV.	RANGE
4–5″5 (50)	25°	19,000 YDS.
1–3″ (40)	85°	9,000 YDS.

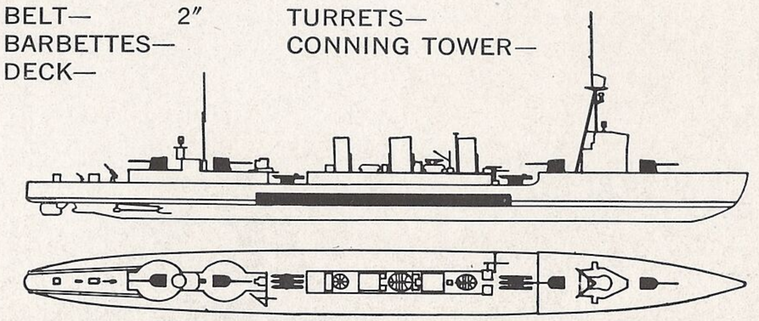
6–21″ TORPEDO TUBES, TRIPLE MOUNTS
DEPTH CHARGES AND MINES CARRIED

PROPULSION

MACHINERY— CURTIS-PARSONS
BOILERS— 10 KAMPON
FUEL— COAL AND OIL, 900 TONS
DESIGNED HP— 51,000
DESIGNED SPEED—31 KNOTS; 33 KNOTS ON TRIAL
ENDURANCE— 1,250 @ 31 KNOTS
6,000 @ 10 KNOTS

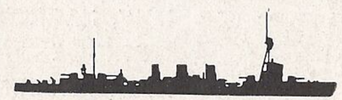
PROTECTION

BELT— 2″ TURRETS—
BARBETTES— CONNING TOWER—
DECK—



TENRYU CLASS

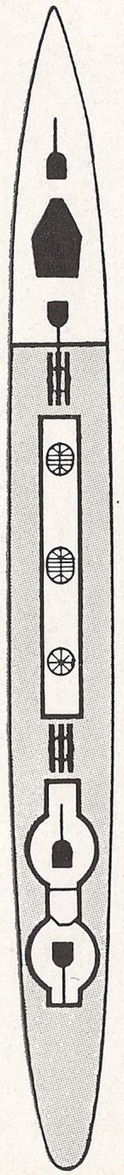
TENRYU–CL 1



TATSUTA–CL 2

TENRYU CLASS— CL 1-2

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —AUGUST, 1943



PROFILE— →

3 RAKING SINGLE PIPES
CRUISER HULL, BROKEN FOR'D TRIPOD FOREMAST,
STICK MAINMAST

←

AERIAL—

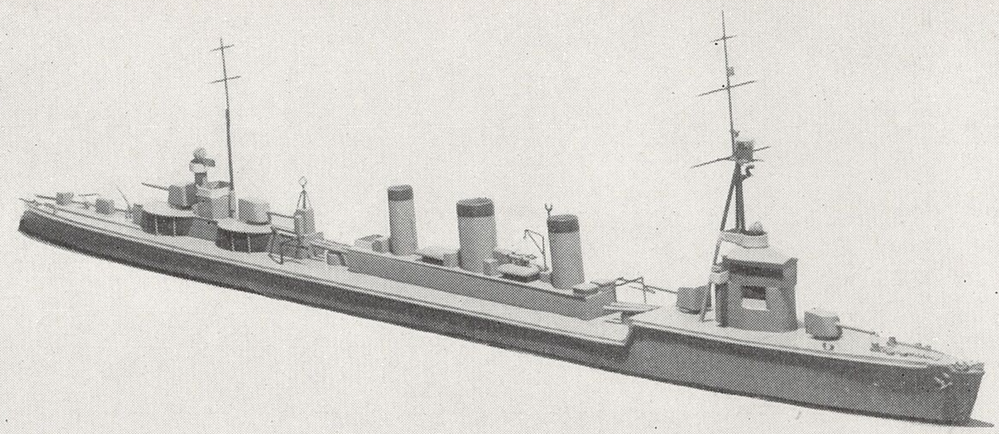
TURRETS—1 FOR'D OF FOREMAST, 1 AFT
1 FOR'D OF MAINMAST, 1 AFT
NO CATAPULT

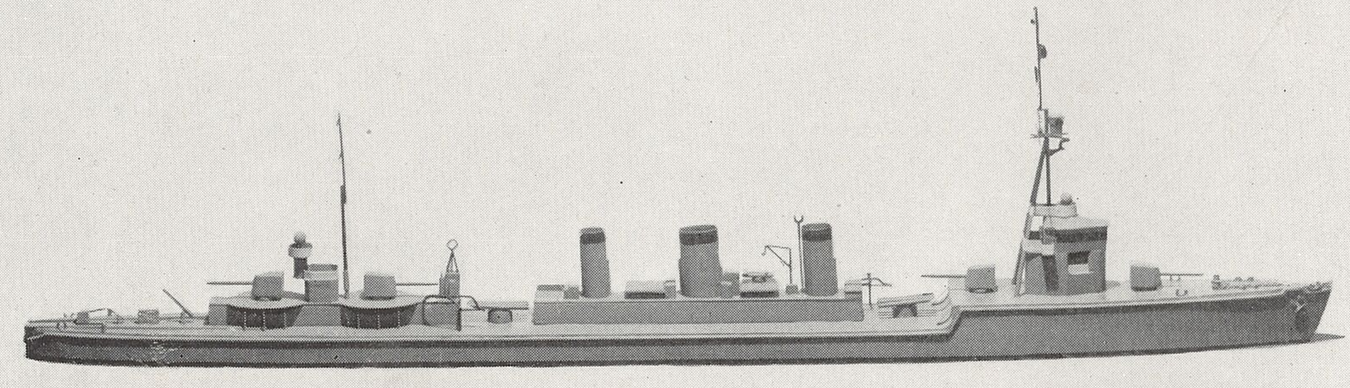
END-ON— ↑

LOW, NARROW BOX BRIDGE
HIGH PROMINENT FOREMAST

AERIAL VIEWS

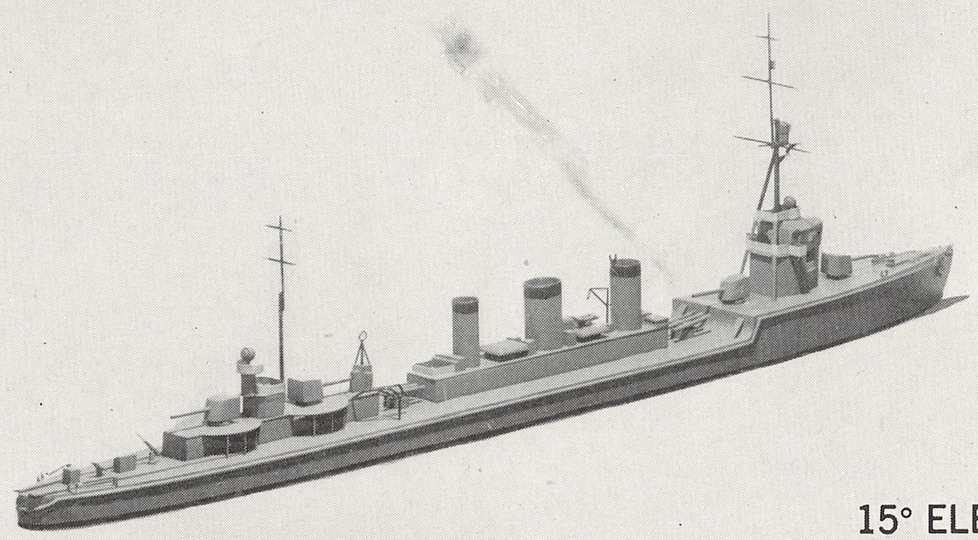
45°





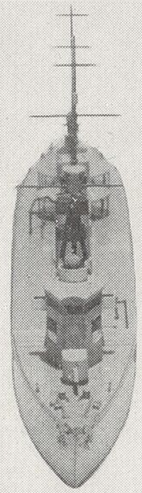
90°

135°

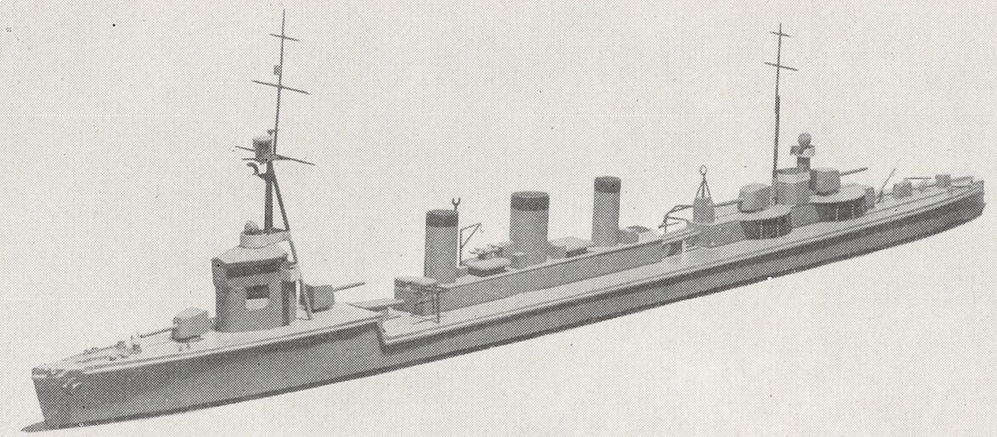


15° ELEVATION

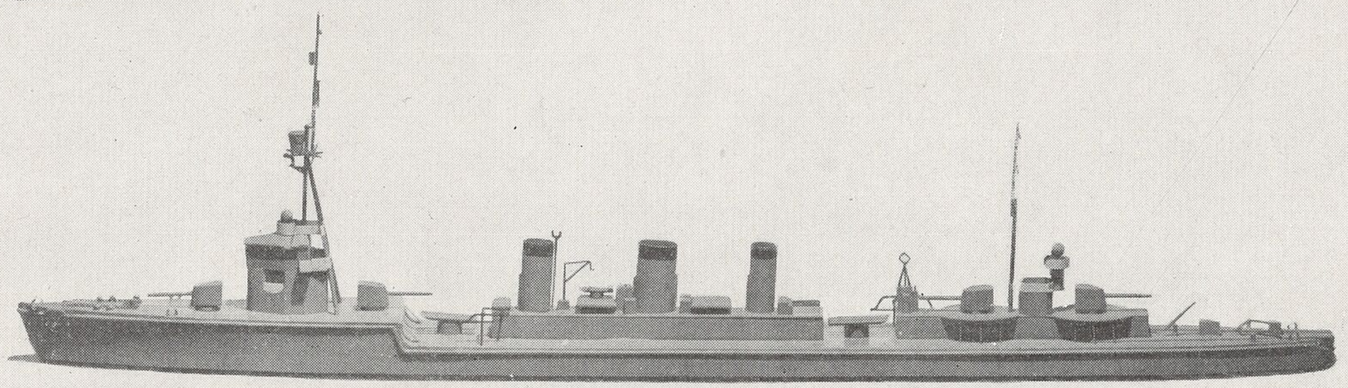
0°



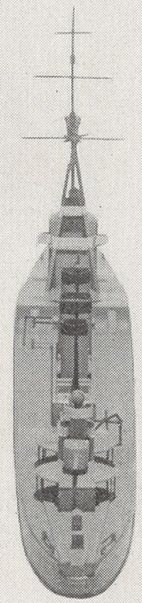
315°



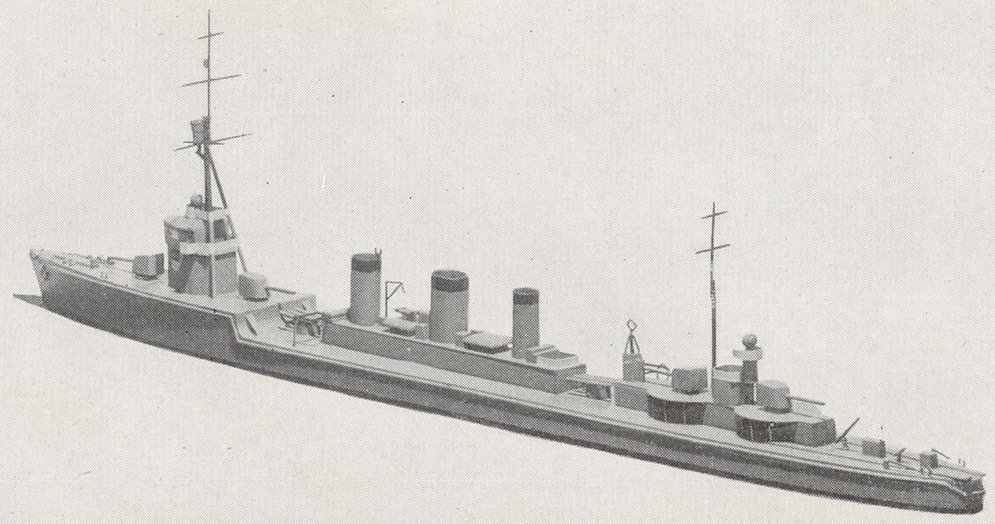
270°



180°



255°

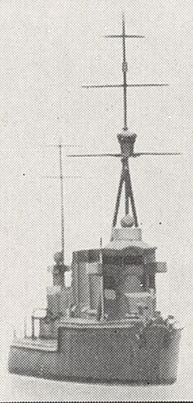


TENRYU CLASS—CL 1-2

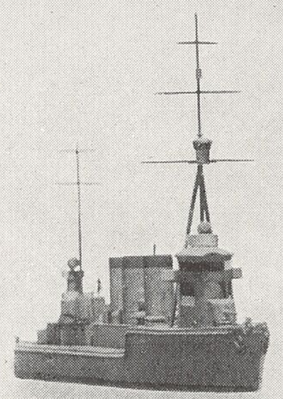
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

0°

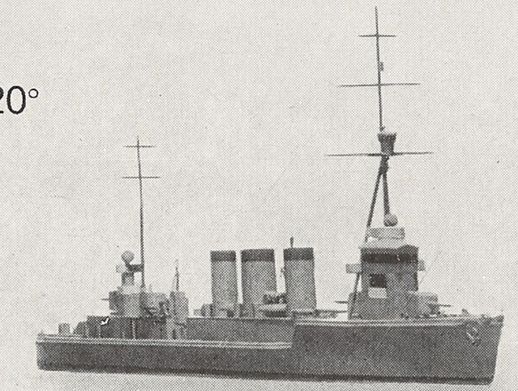
5°



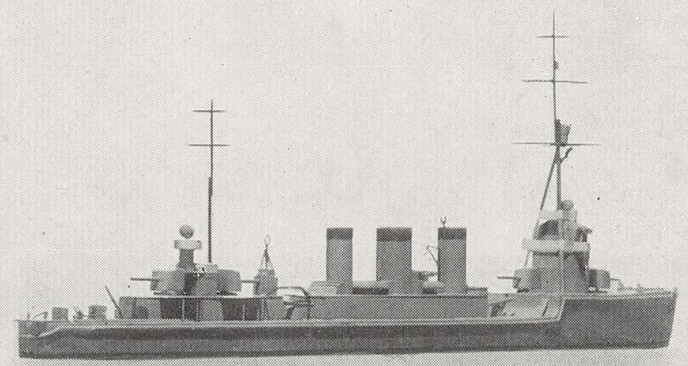
10°



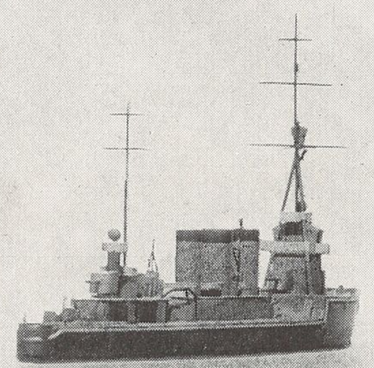
20°



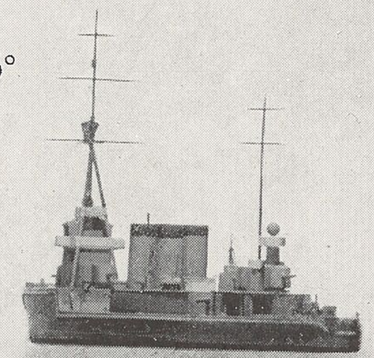
150°



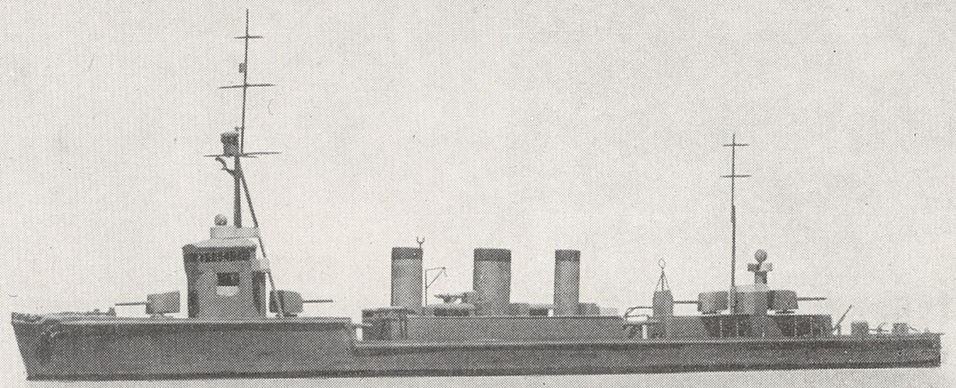
165°



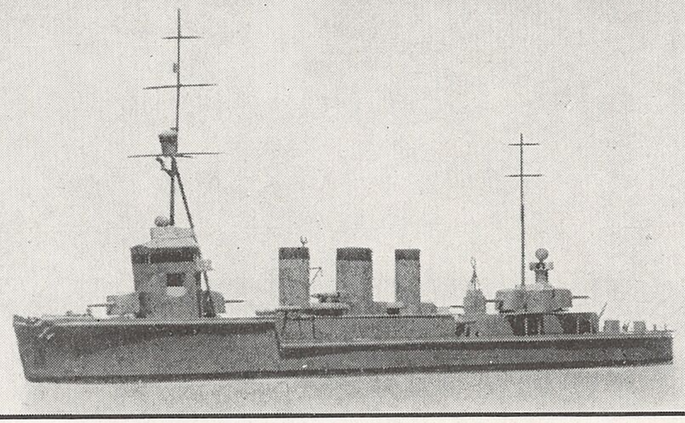
195°



315°



330°



KNOTS	RPM
31	420
	400
	375
	350

KNOTS	RPM
	325
	300
	275
	250

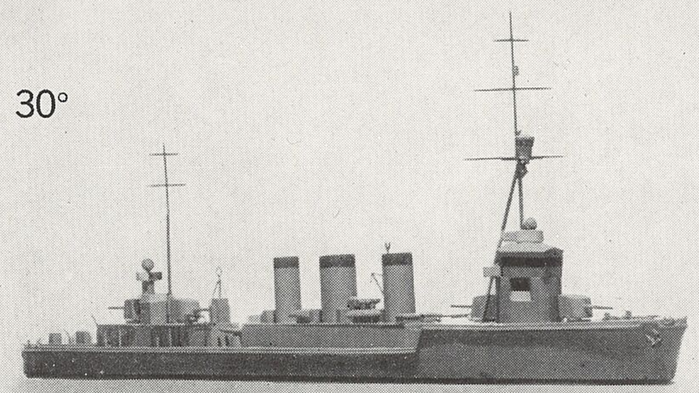
KNOTS	RPM
	225
	200
	175
	150

KNOTS	RPM
	125
	100
	75
	50

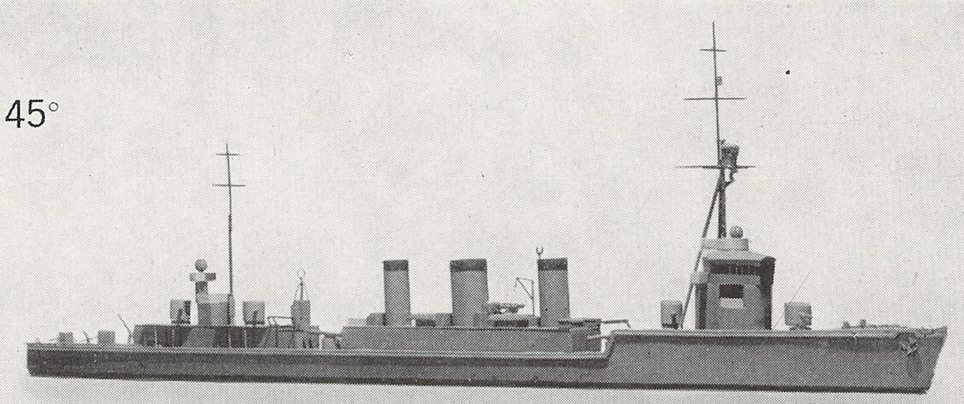
KNOTS	RPM
	25

ONI 41-42

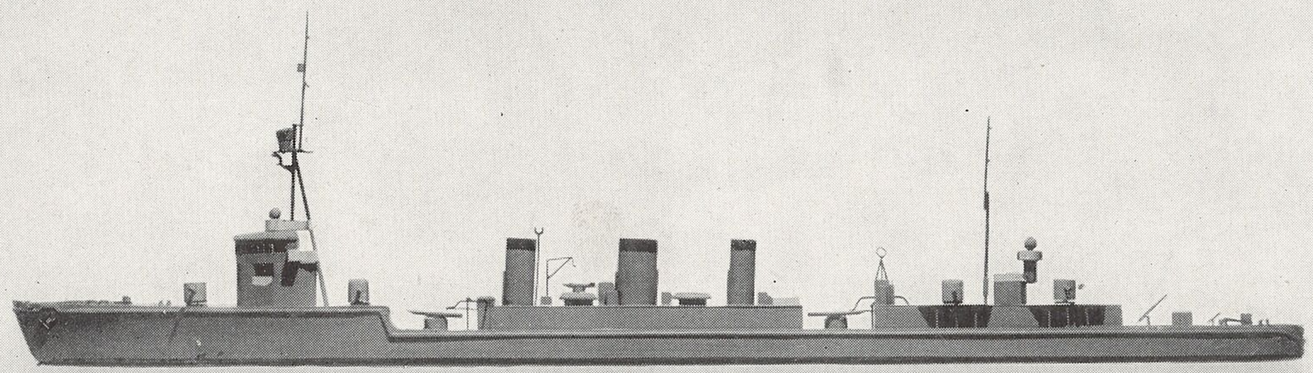
30°



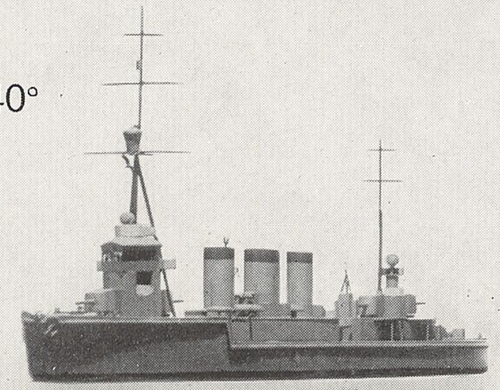
45°



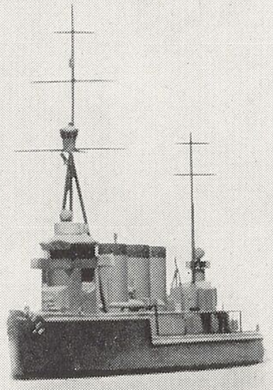
270°



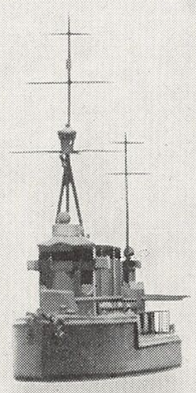
340°



350°



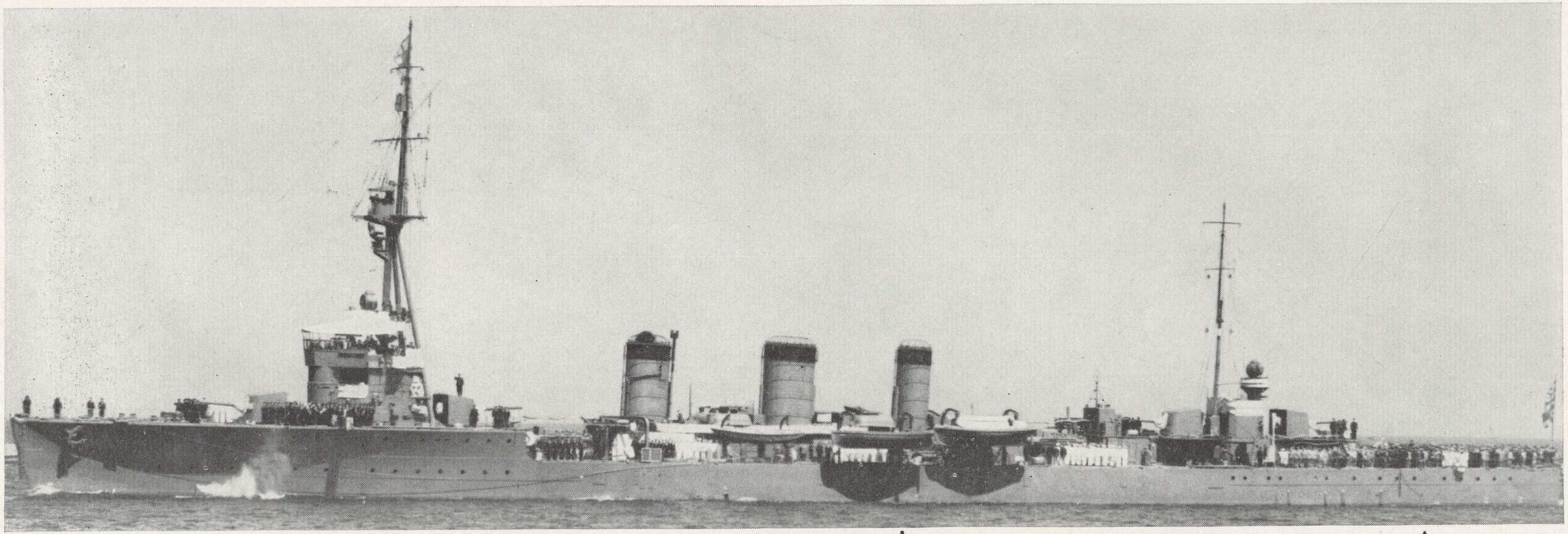
355°



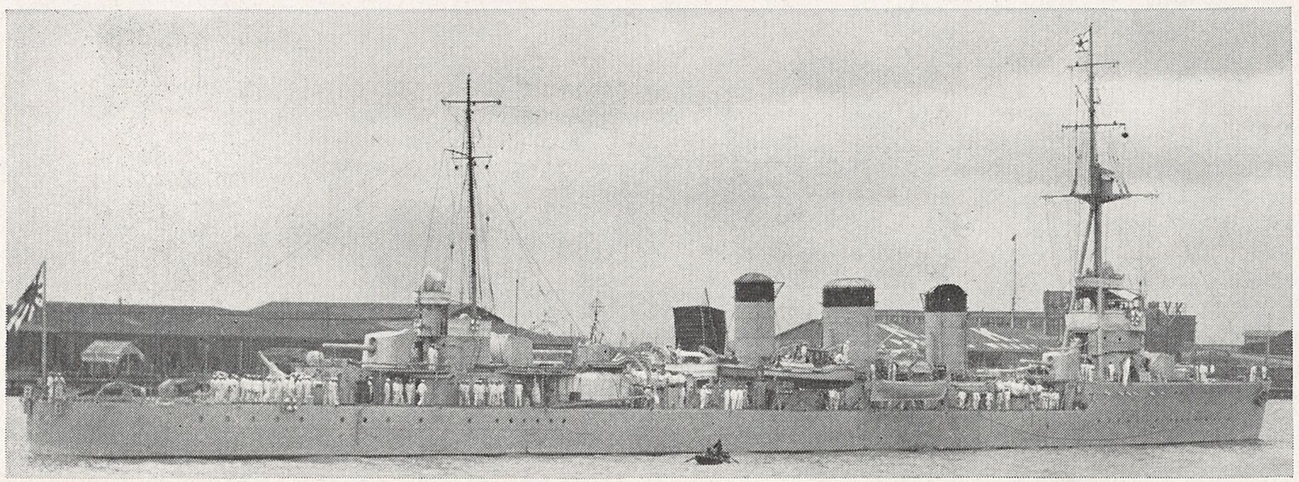
TENRYU CLASS—CL 1, 2

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—DECEMBER, 1942

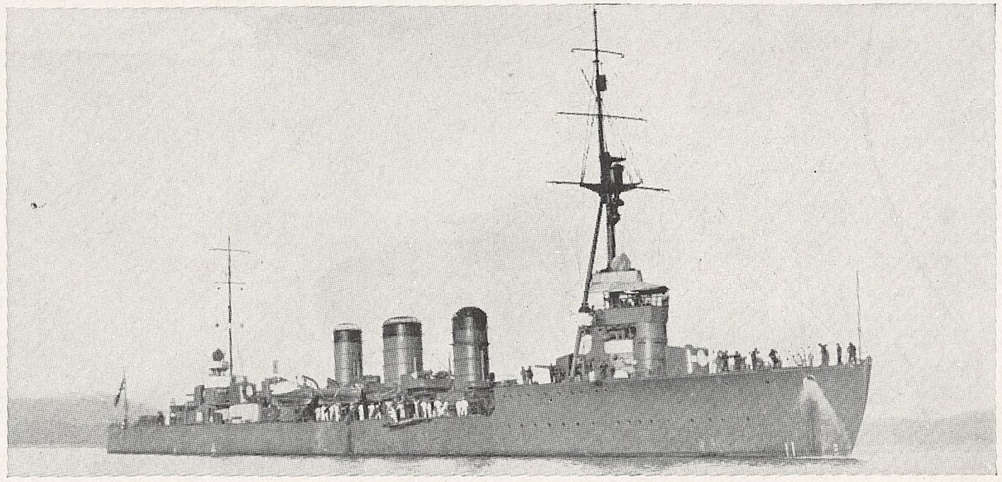
	BEGUN	COMPLETED
TENRYU –CL 1	5/17/17	11/20/19
TATSUTA–CL 2	7/24/17	3/31/19



↓ TATSUTA—6/21/35



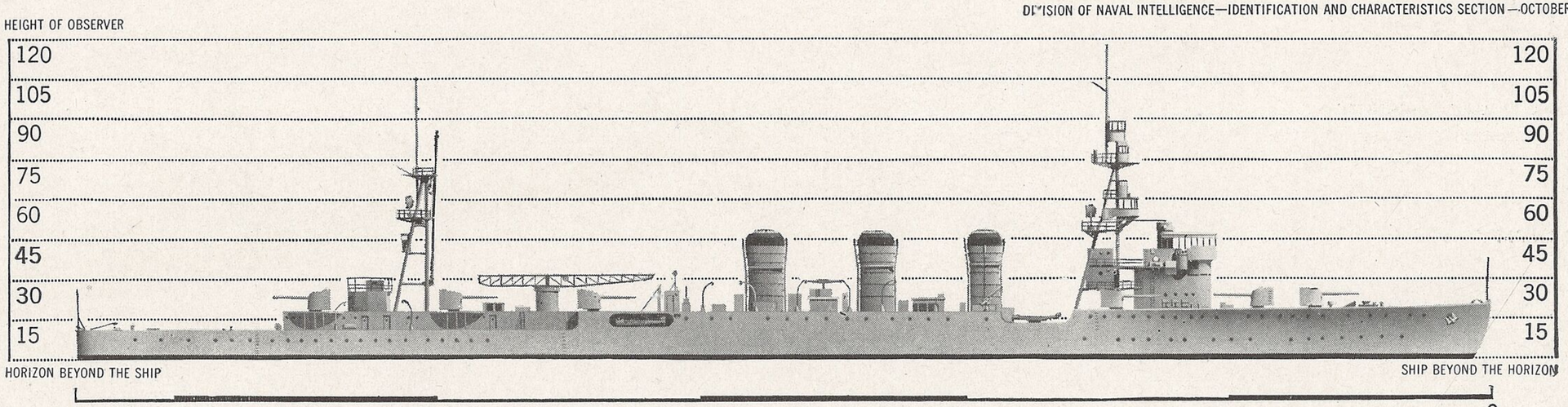
↑ TENRYU—1935



ONI 41-42 RESTRICTED

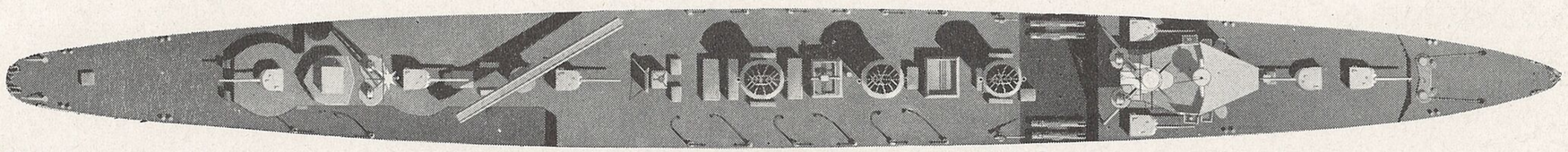
KUMA CLASS—CL3-7

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—OCTOBER, 1942

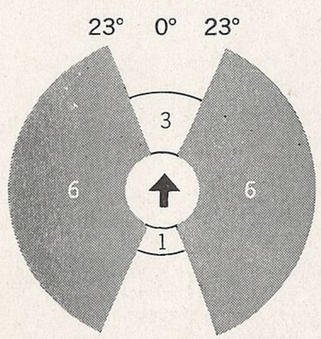


LENGTH—535′ OA—529′ WL
BEAM —47′3″
DRAFT —15′9″ (MEAN)

DISPLACEMENT
5,100 TONS (STANDARD)



DENSITY OF FIRE
MAIN BATTERY



ARMAMENT

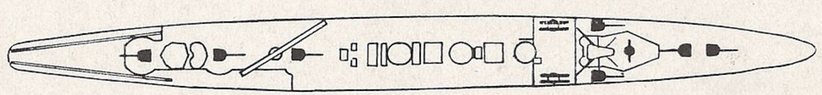
	MAX. ELEV.	RANGE
7–5″.5 50 CAL	15°	20,000 YD.
2–3″.15 AA		

8–21″ TORPEDO TUBES TWIN MOUNTS

80 MINES—LAUNCHING TRACKS

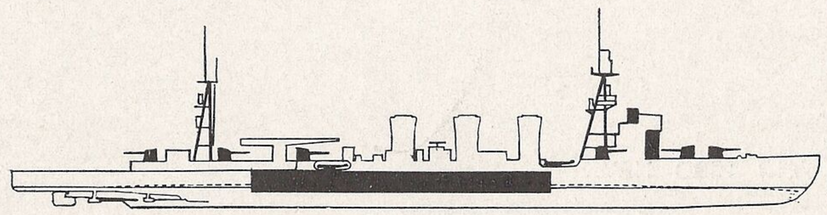
1 CATAPULT—1 SEAPLANE SCOUT

24 DEPTH CHARGES—2 PROJECTORS



PROTECTION

BELT—1¾″
TURRETS—1″ TO 1½″
CONNING TOWER—2″
DECK—2″ OVER VITALS
UNDERWATER PROTECTION VERY GOOD



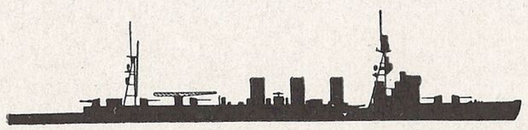
KNOTS	RPM
33	439
	420
	400
	350
	300
	275
	250
	245
	240
	220
	200
	160
	150
	120
	80

DES. SPEED 33 KTS — DES. HP 70,000

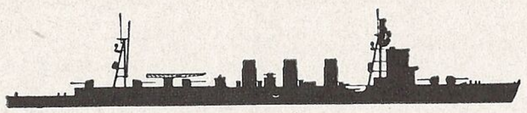
KUMA CLASS—CL 3-7

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

MISTAKEN IDENTITY



KUMA CLASS

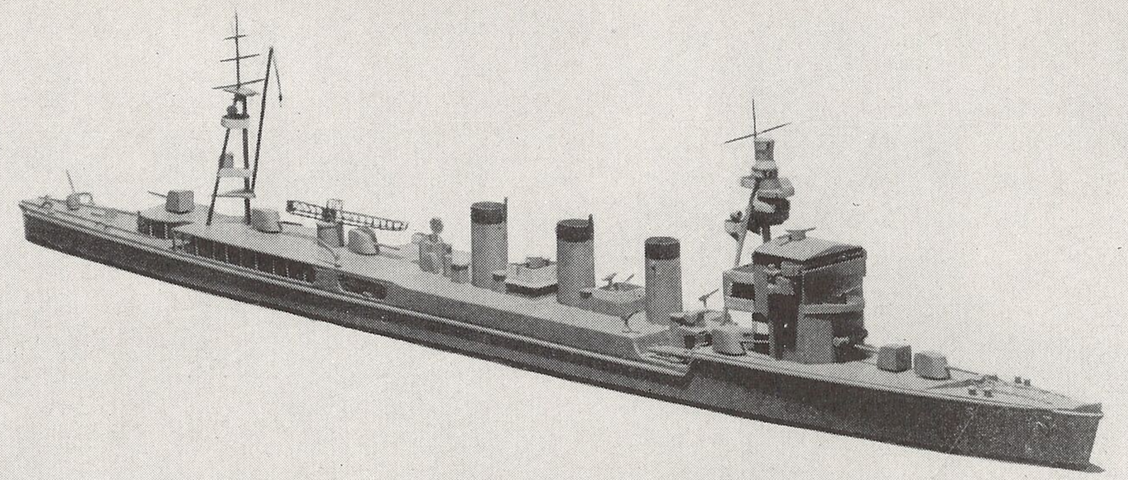


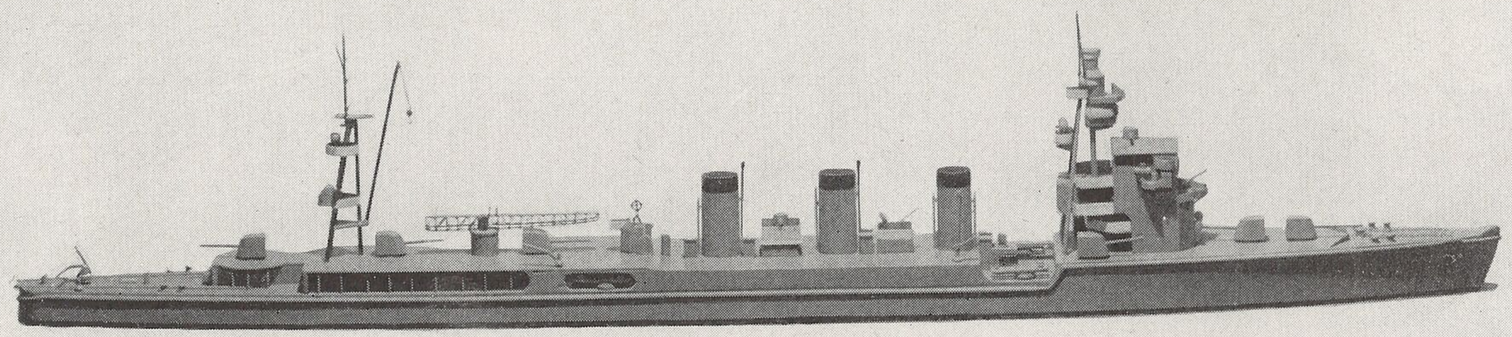
NATORI CLASS

NOTE—ONLY KUMA AND KISO HAVE FLARED STACKS AS SHOWN AT RIGHT

AERIAL VIEWS

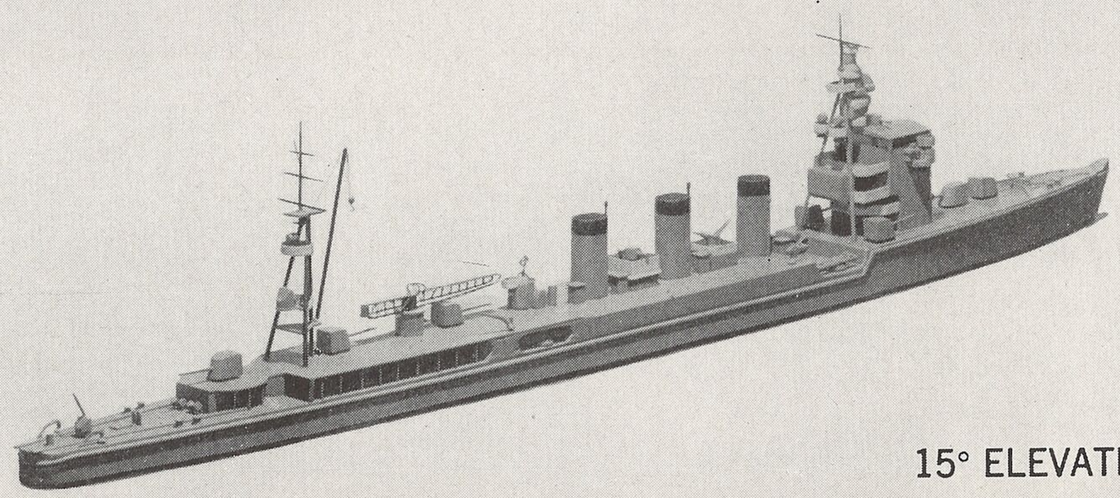
45°





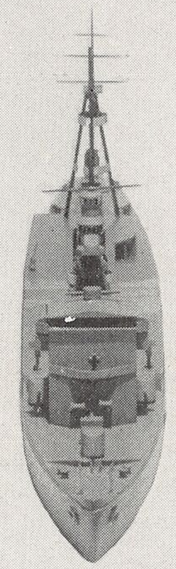
90°

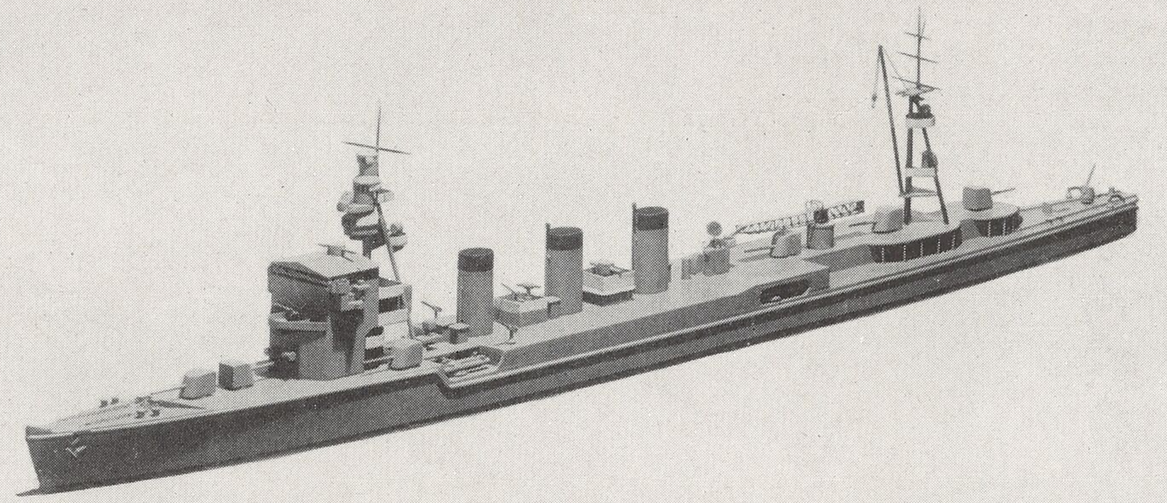
135°



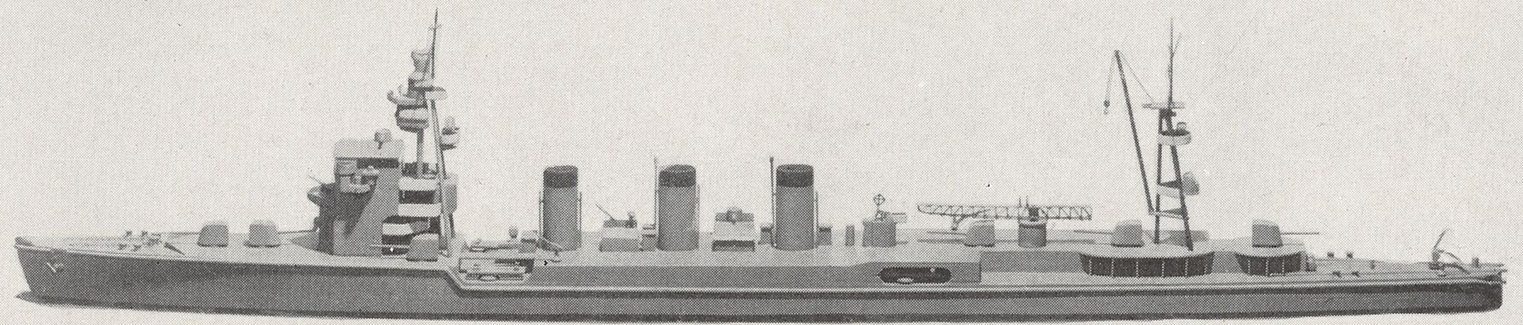
15° ELEVATION

0°



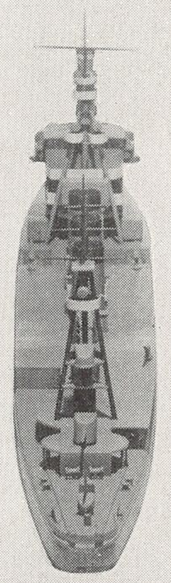


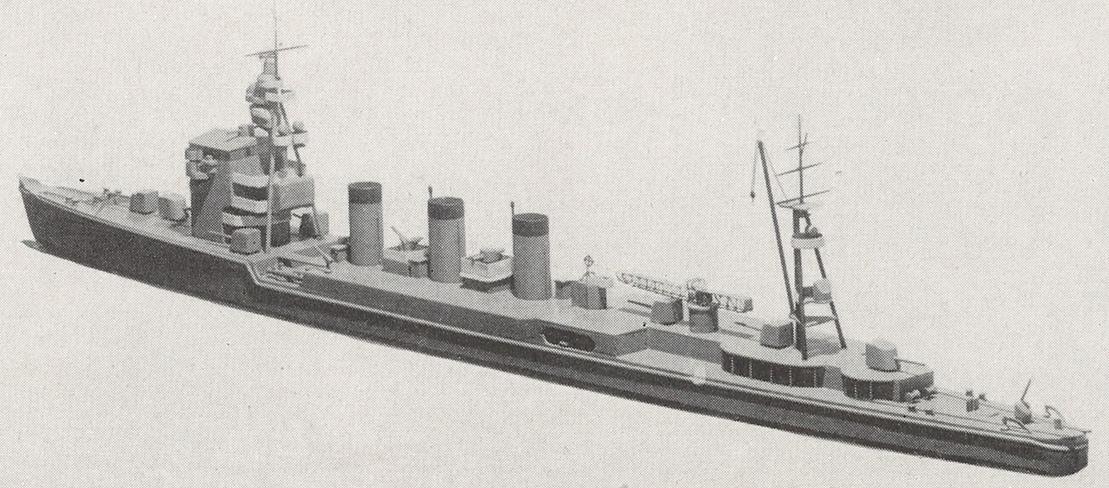
315°



270°

180°





255°

KUMA CLASS—CL 3-7

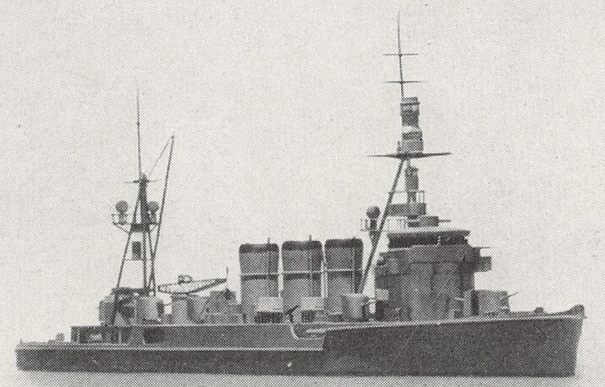
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

0°

5°

10°

20°



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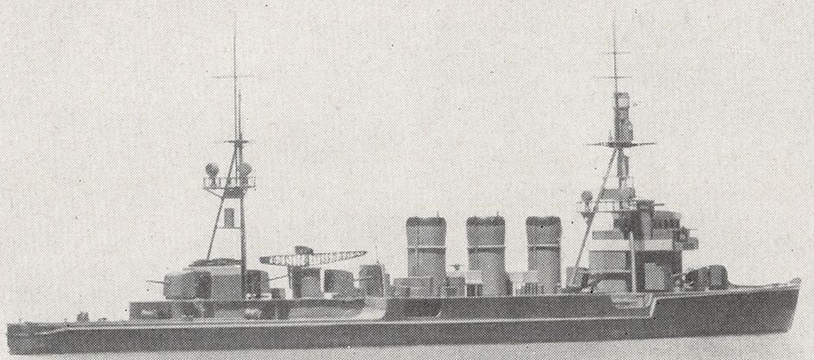
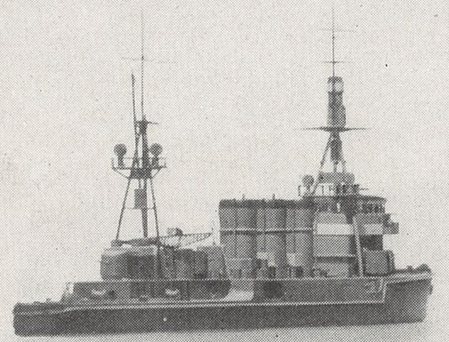
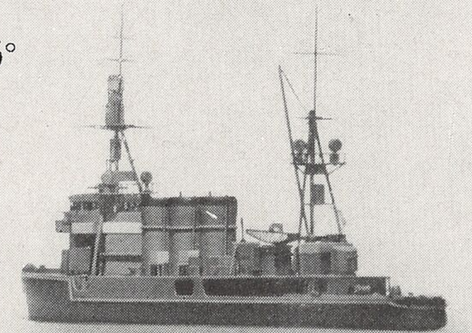


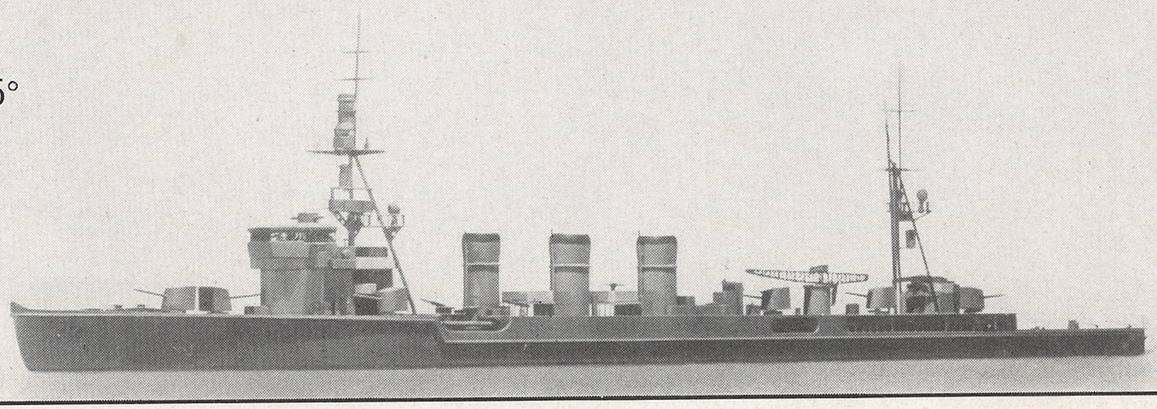
165°



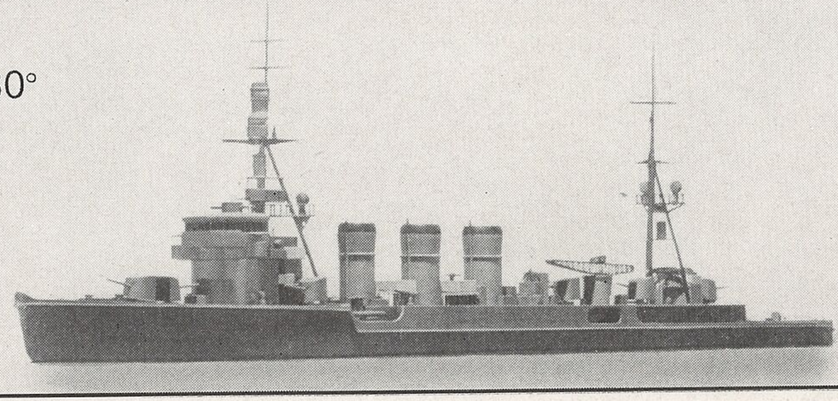
195°



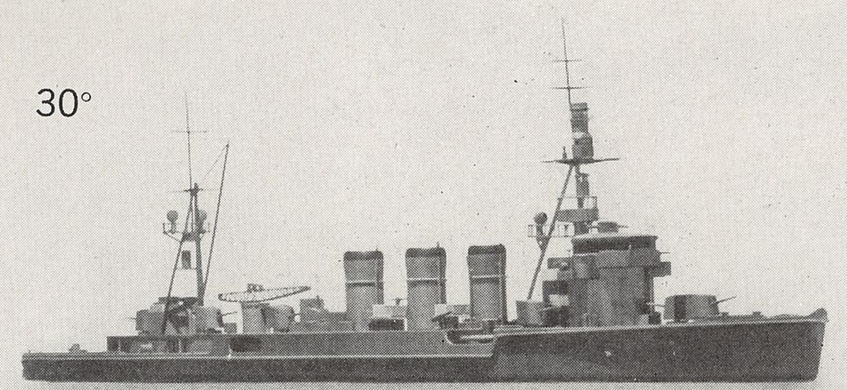
315°



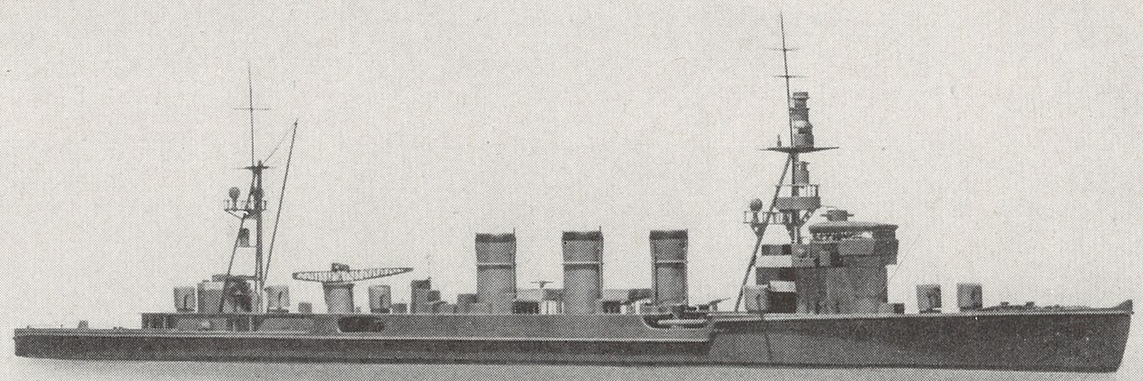
330°



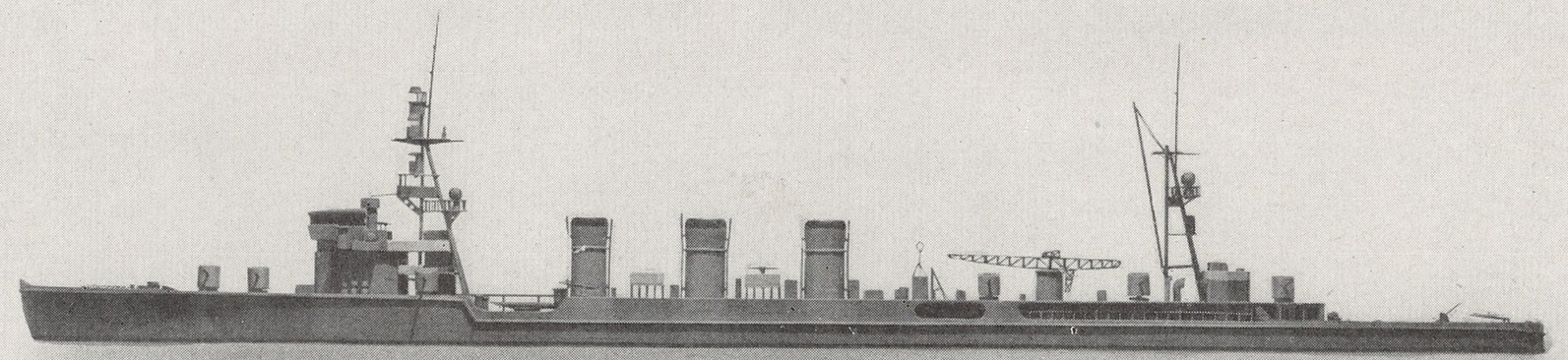
30°



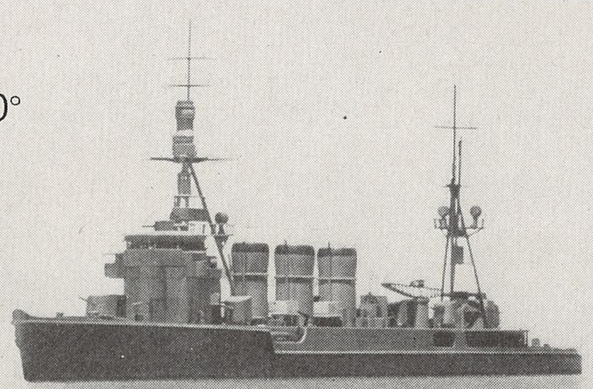
45°



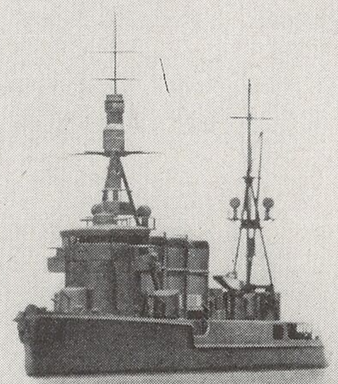
270°



340°



350°



355°

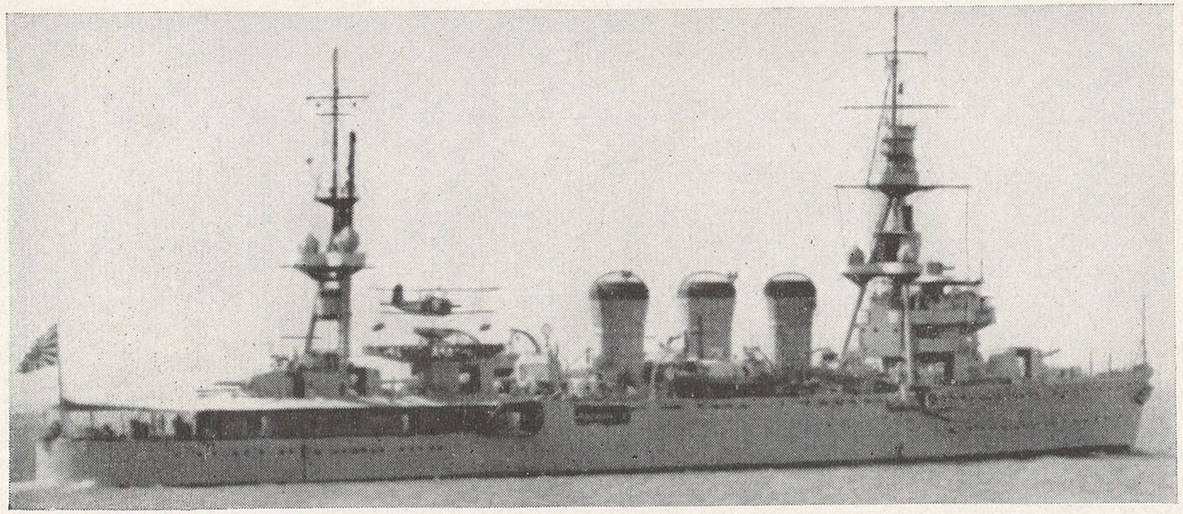
KUMA CLASS—CL3-7

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—OCTOBER, 1942

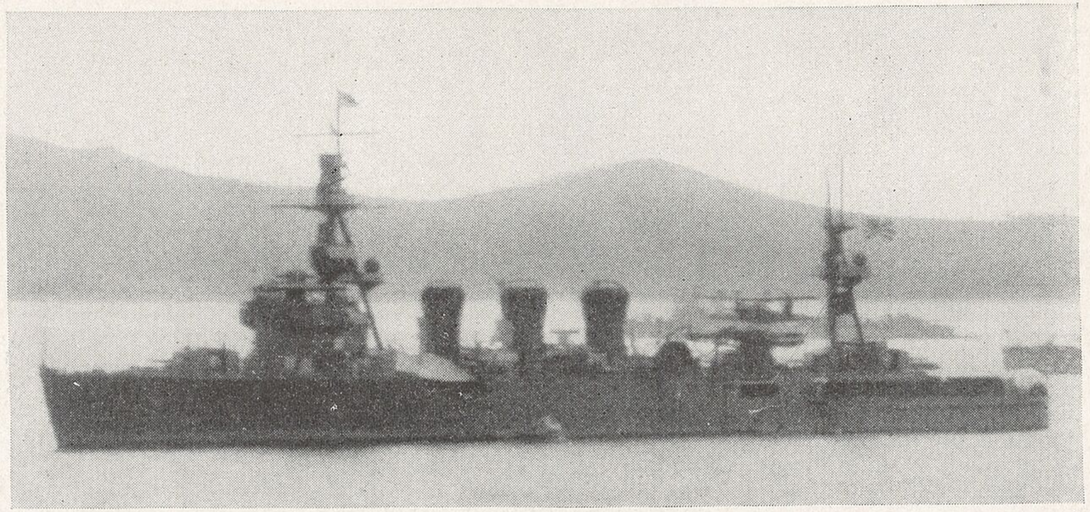
SISTER SHIPS	BEGUN	COMPLETED
KUMA—CL3	8/29/18	8/31/20
TAMA —CL4	8/10/18	1/29/21
KITAKAMI—CL5	9/1 /19	4/15/21
KISO —CL6	6/10/19	5/4 /21
OI —CL7	11/24/19	1/29/21

ONI 41-42

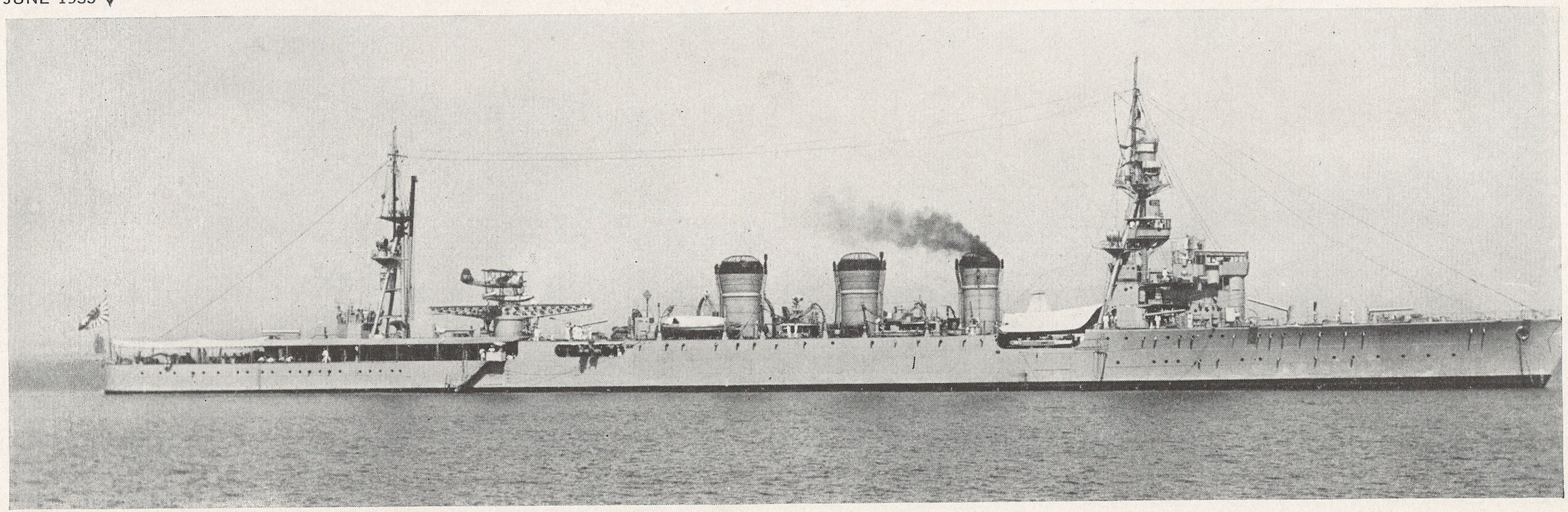
RESTRICTED



JUNE 1935 ↓



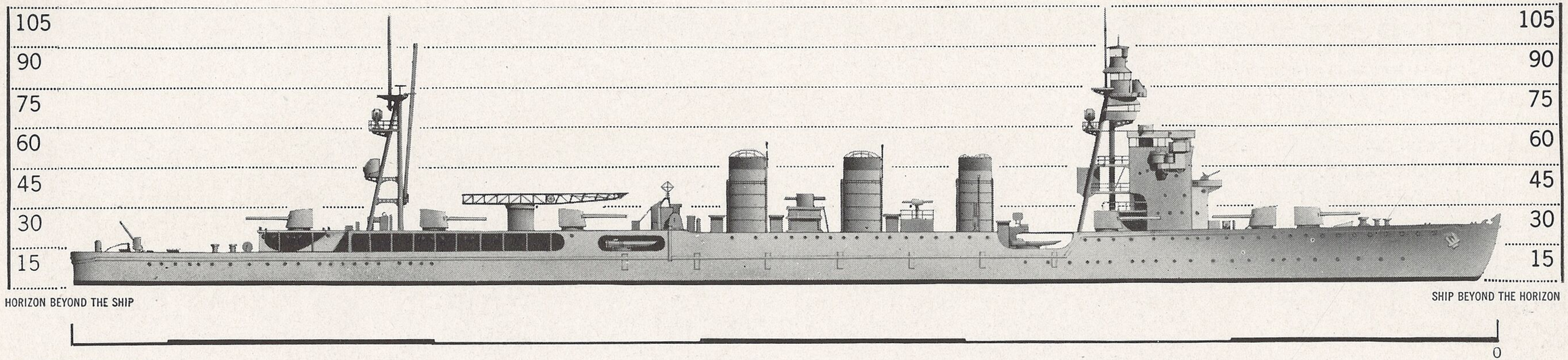
1937 ↑



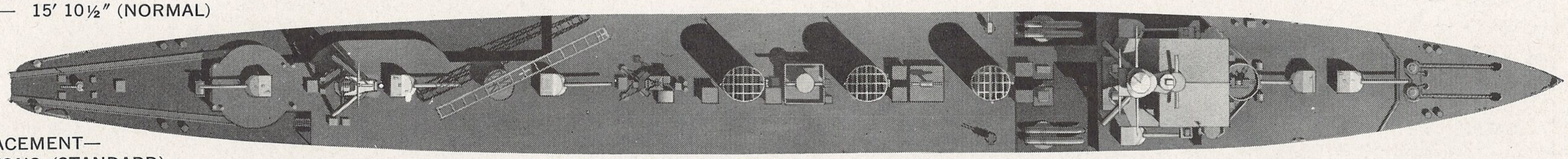
ONI 41-42 RESTRICTED

NATORI CLASS—CL 8-13

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—NOVEMBER, 1942

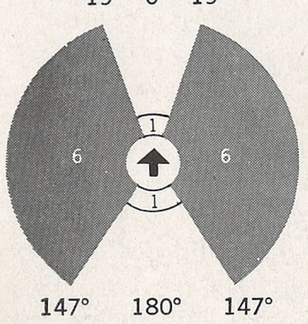


LENGTH—535′ OA
BEAM— 47′ 3″
DRAFT— 15′ 10½″ (NORMAL)



DISPLACEMENT—
5,170 TONS (STANDARD)
5,570 TONS (NORMAL)

DENSITY OF FIRE
MAIN BATTERY



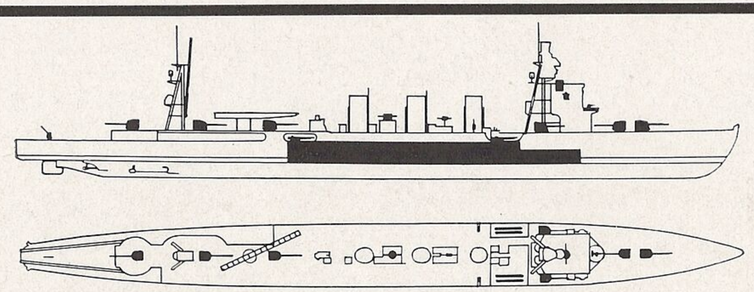
ARMAMENT

	MAX. ELEV.	RANGE
7–5″5 (50)	30°	19,000 YD.
3–3″ (40) AA	85°	9,000 YD.

8–21″ TORPEDO TUBES TWIN MOUNTS
80 MINES, 24 DEPTH CHARGES
1 CATAPULT, 1 SCOUT OBSERVATION

PROPULSION

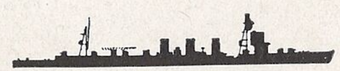
MACHINERY—4 CURTIS-PARSONS BOILERS—8 OIL, 4 COAL
FUEL— COAL-300 TONS; OIL-1,260 TONS
DESIGNED HP— 90,000 ENDUR.—1,500 @ 33 KNOTS
DESIGNED SPEED—33 KNOTS 8,500 @ 10 KNOTS



PROTECTION

BELT—2″ TURRETS— BARBETTES—
CONNING TOWER—2″ DECK—2″

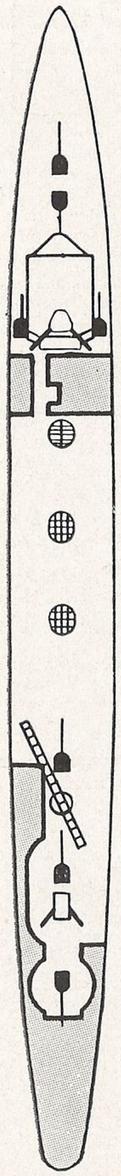
6—NATORI CLASS



NATORI —CL 8
NAGARA —CL 9
KINU —CL 10
YURA —CL 11
ISUZU —CL 12
ABUKUMA —CL 13

NATORI CLASS— CL 8-13

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943



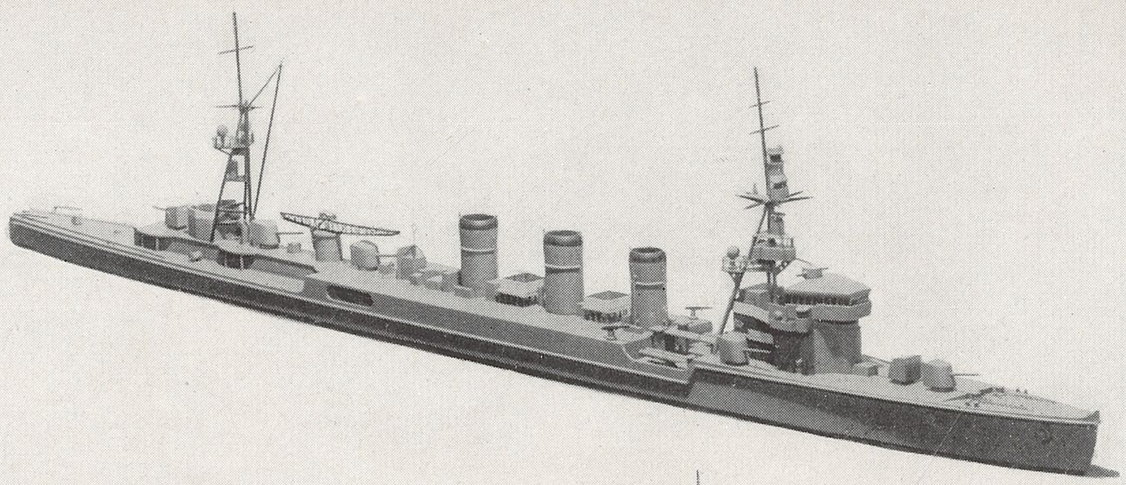
PROFILE— →
STACKS—3 S. P.
MASTS— TRIPOD FORE
TRIPOD MAIN

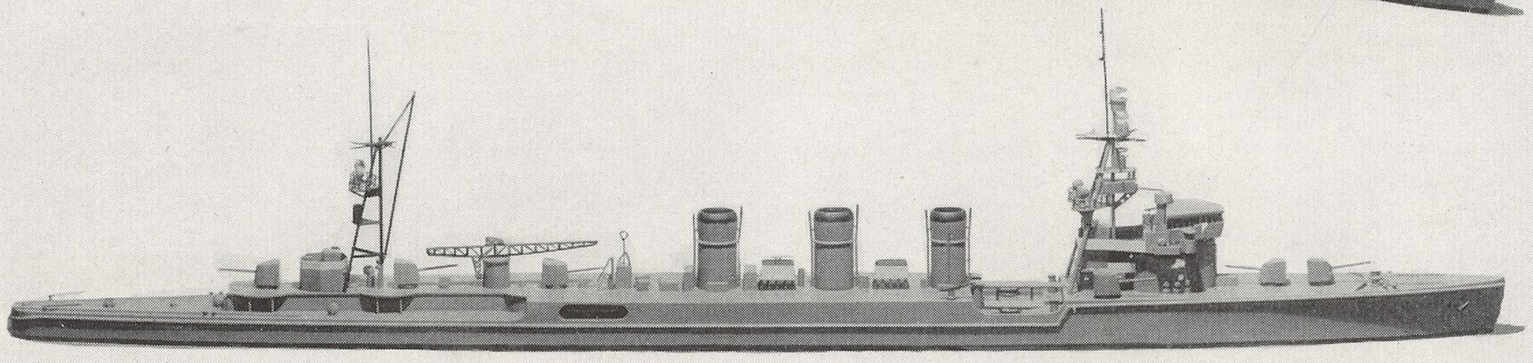
←
AERIAL—
GUNS—
2 SINGLE FOR'D
2 ABREAST BRIDGE
3 AFT
CATAPULT FOR'D OF MAINMAST

END-ON— ↑
HIGH BOX BRIDGE
NARROW BEAM, LOW FREEBOARD

AERIAL VIEWS

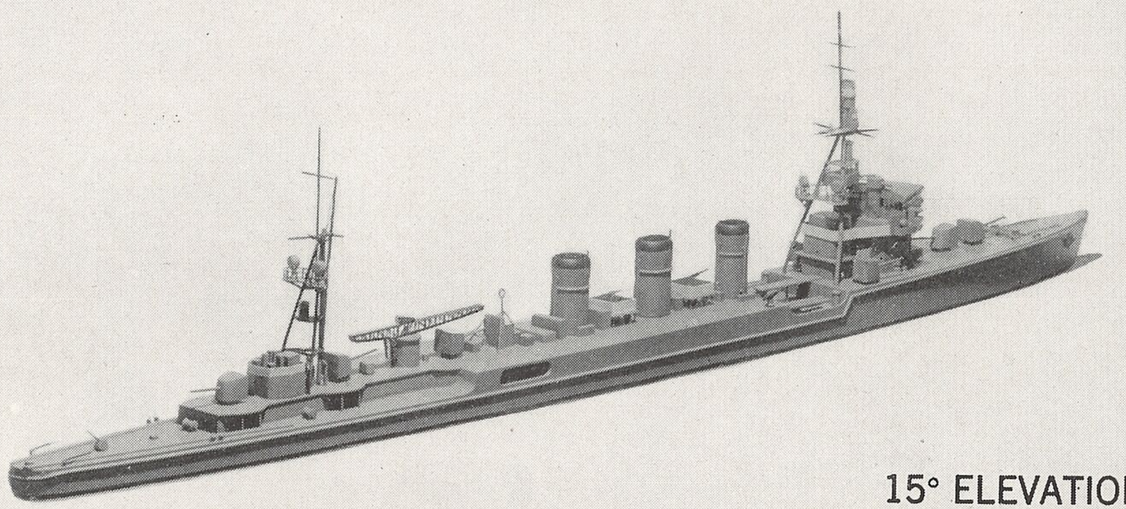
45°





90°

135°



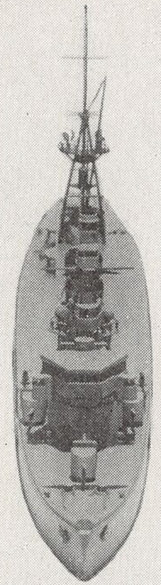
15° ELEVATION

ONI 41-42

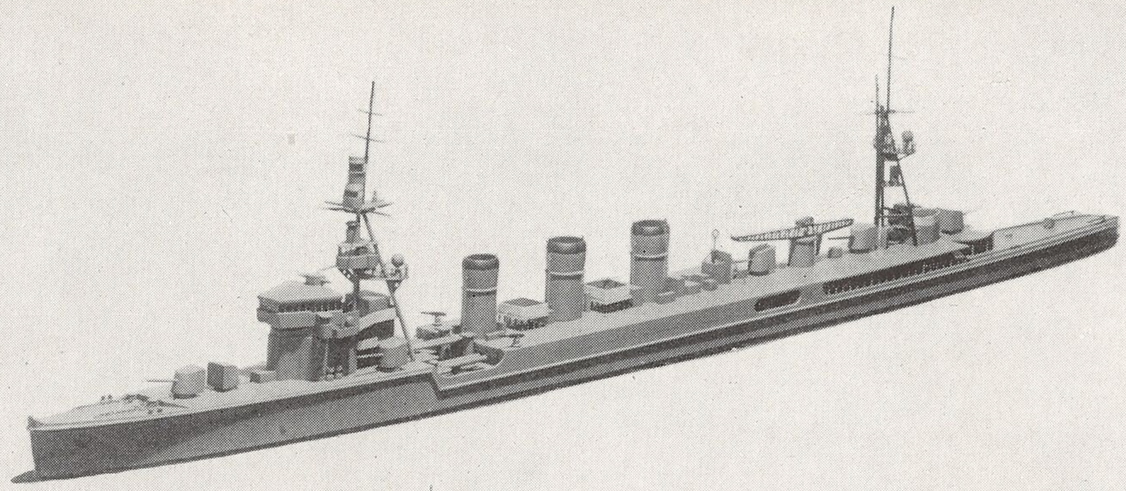
RESTRICTED

SHIP BEYOND THE HORIZON

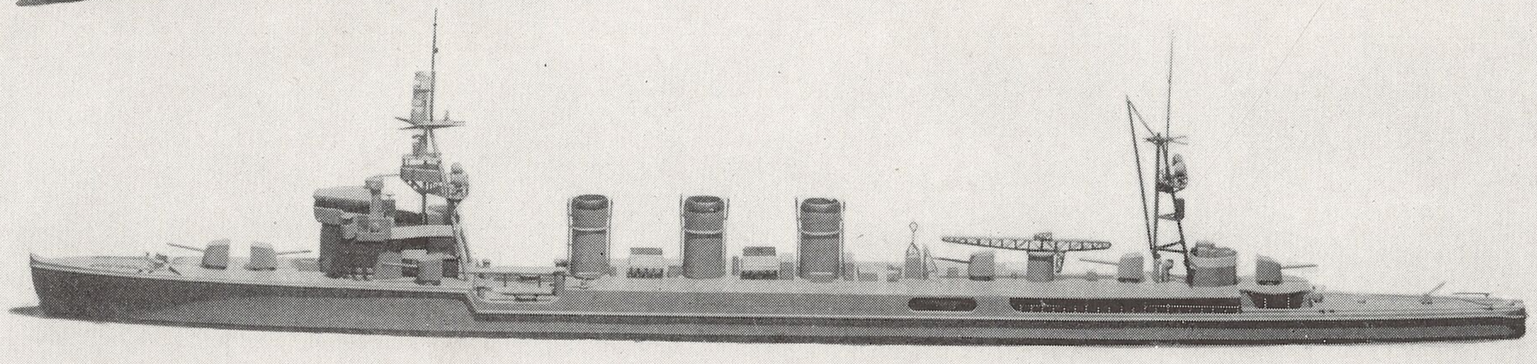
0°



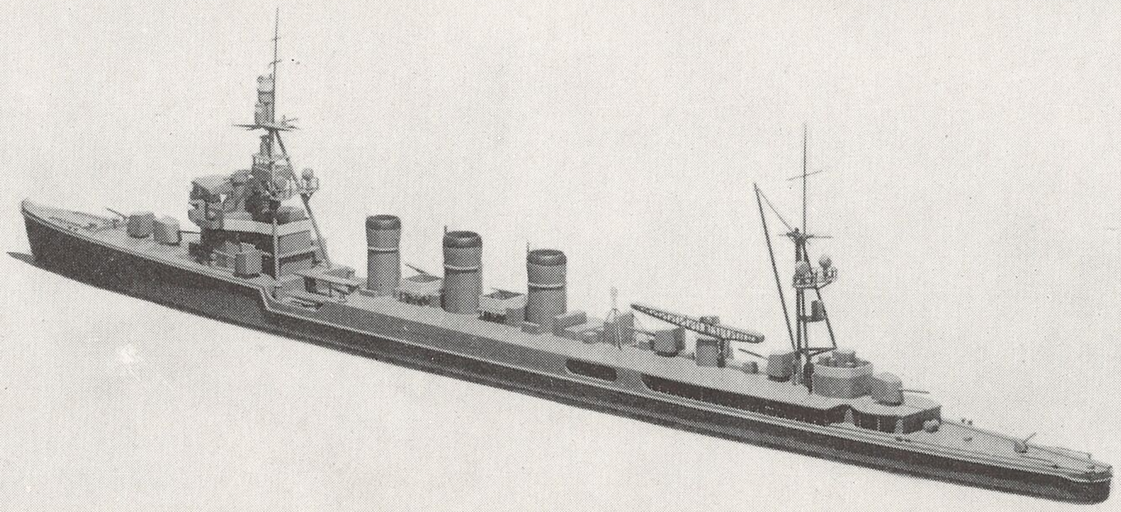
315°



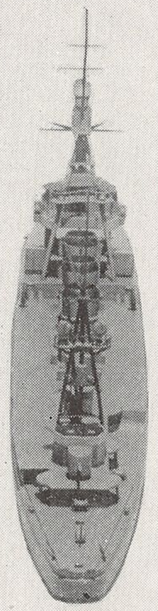
270°



255°



180°



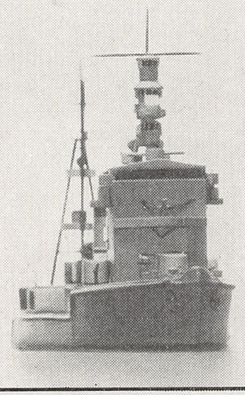
NATORI CLASS—CL 8-13

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

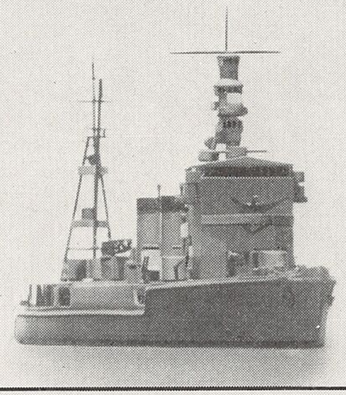
TARGET ANGLES

0°

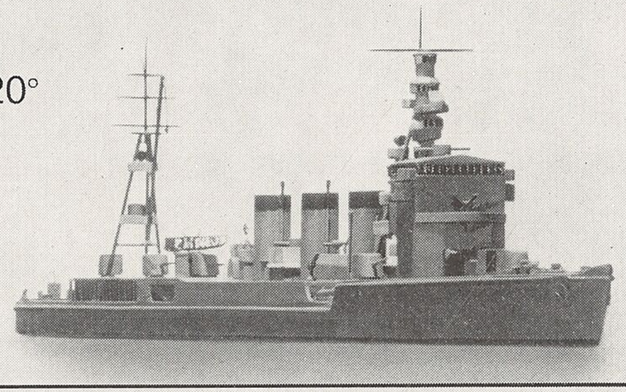
5°



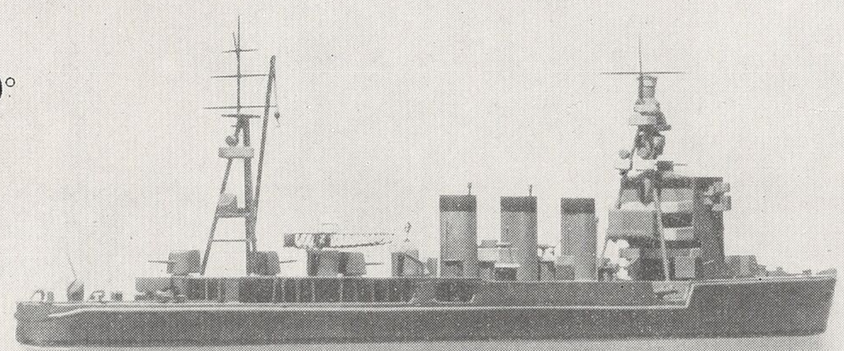
10°



20°

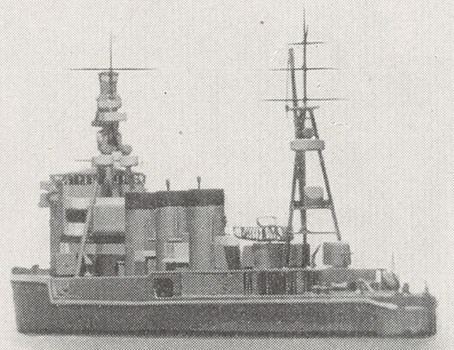


150°

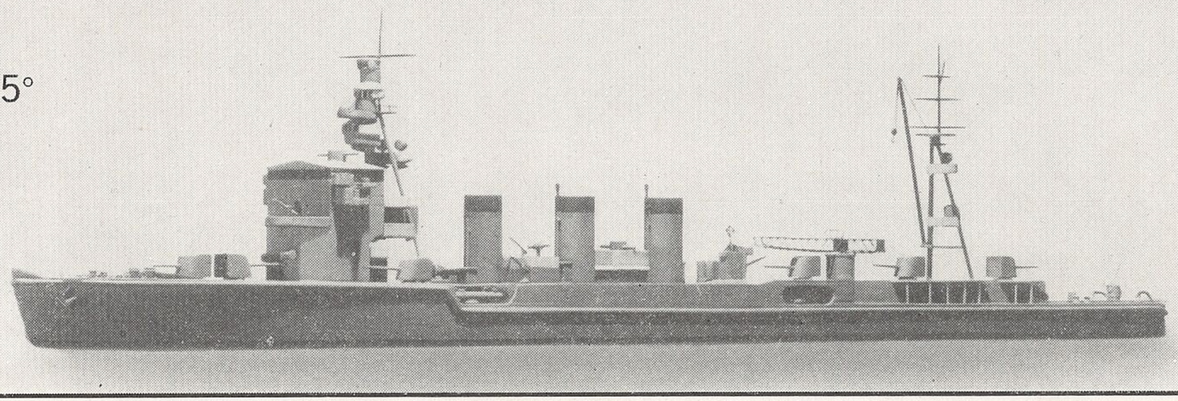


165°

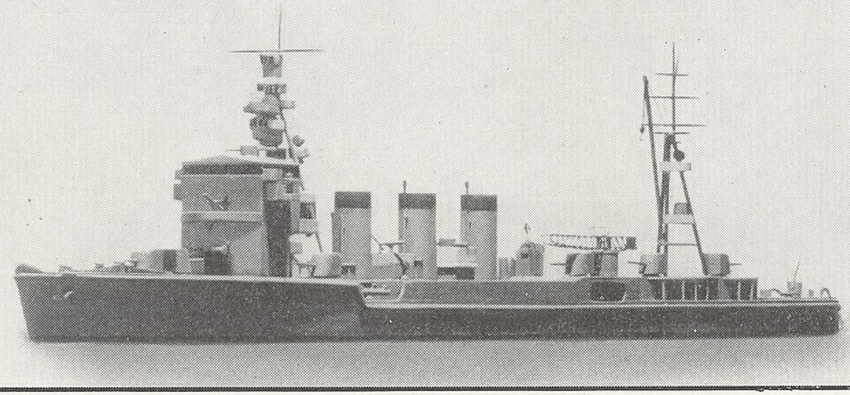
195°



315°



330°



KNOTS	RPM
	400
33	384
	375
	350

KNOTS	RPM
	325
	300
	275
	250

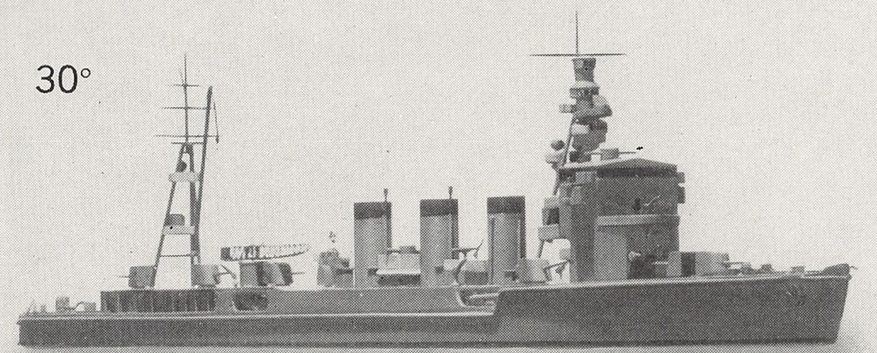
KNOTS	RPM
	225
	200
	175
	150

KNOTS	RPM
	125
	100
	75
	50

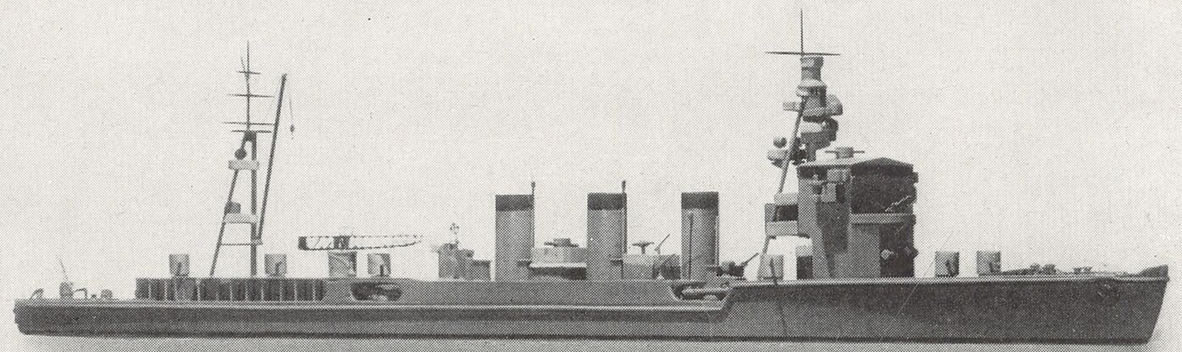
KNOTS	RPM
	25
	0

ONI 41-42

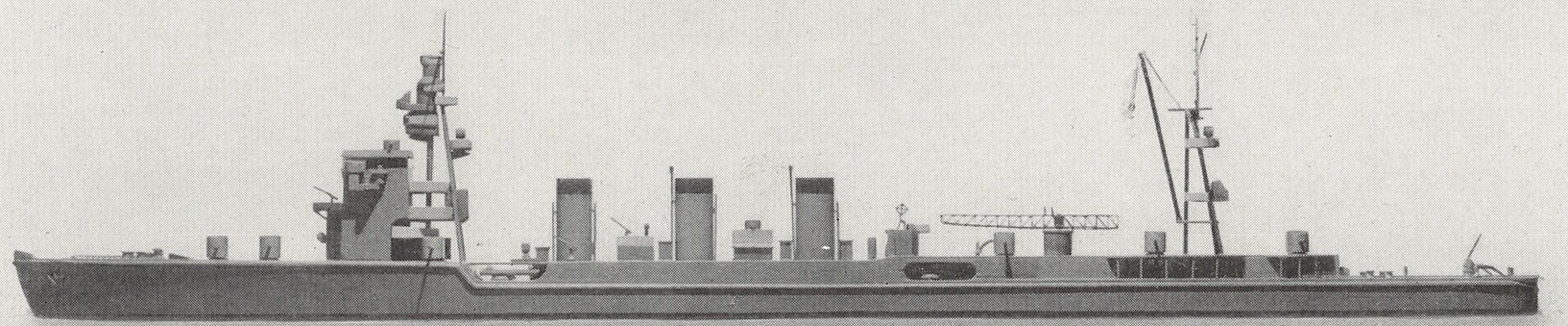
30°



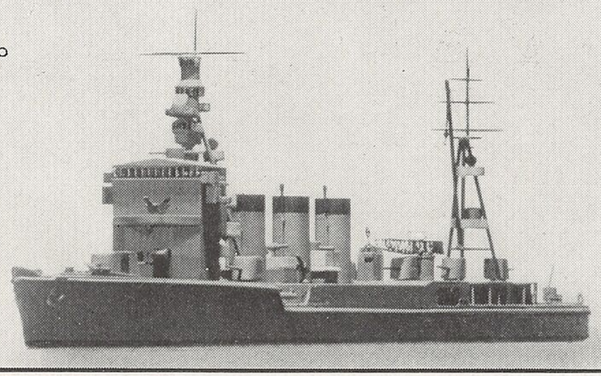
45°



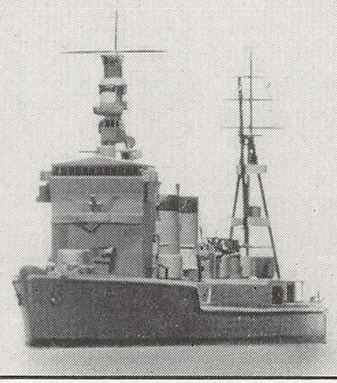
270°



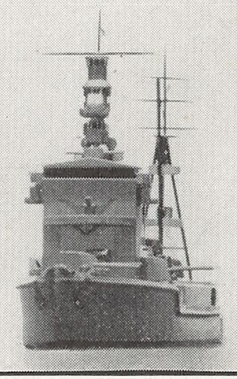
340°



350°



355°



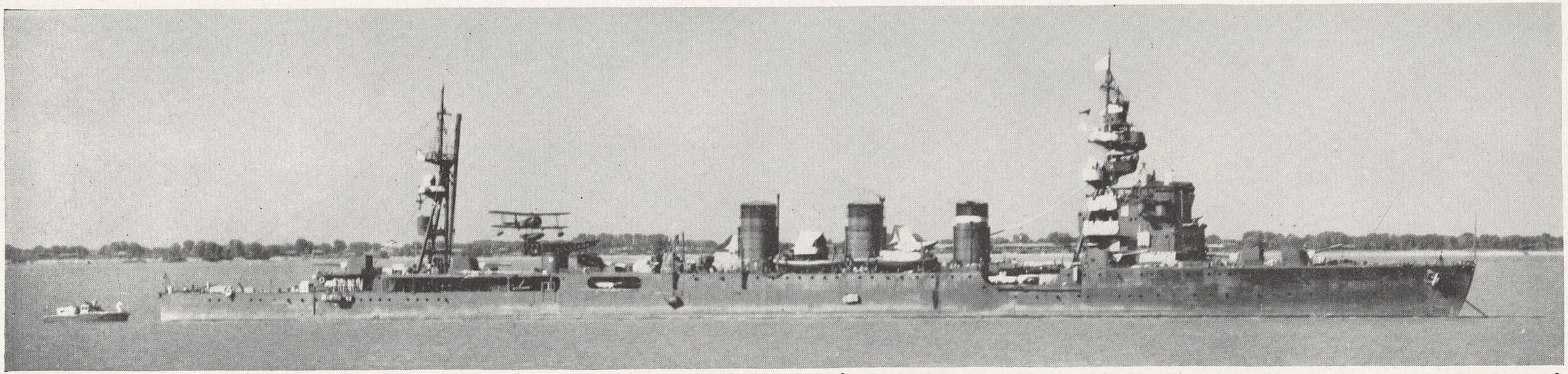
NATORI CLASS—CL8-13

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—NOVEMBER, 1942

		BEGUN	COMPLETED				
NATORI	CL 8	12/14/20	9/15/22	YURA	CL11	5/21/21	3/20/23
NAGARA	CL 9	9/9/20	4/21/22	ISUZU	CL12	8/10/20	8/15/23
KINU	CL10	1/17/21	11/10/22	ABUKUMA	CL13	1/8/21	5/26/25

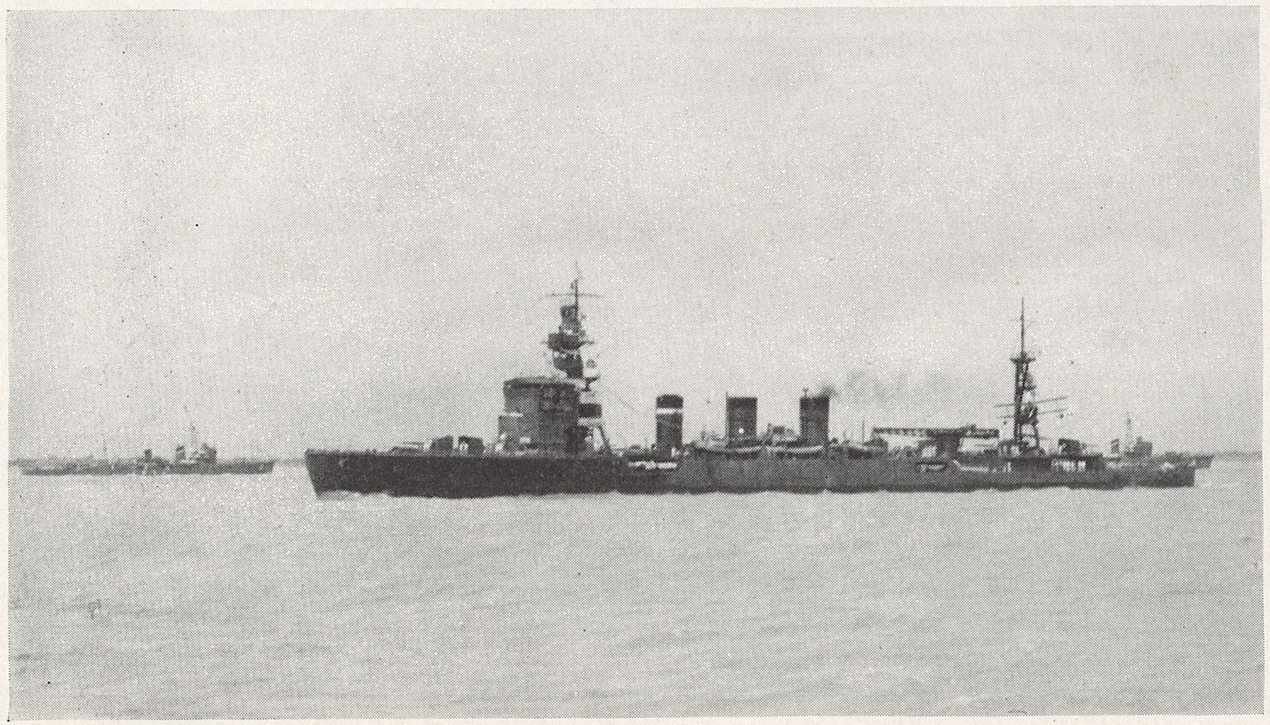
ONI 41-42

RESTRICTED

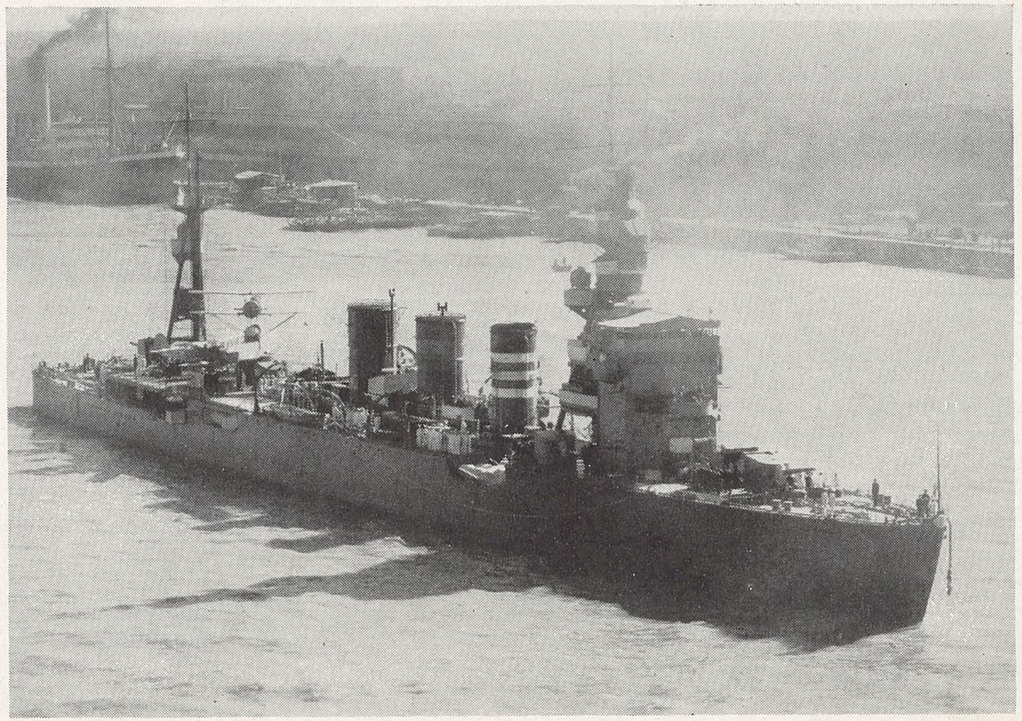


SEVERAL OF THIS CLASS ARE REPORTED SUNK

↑ YURA 1937 ↓



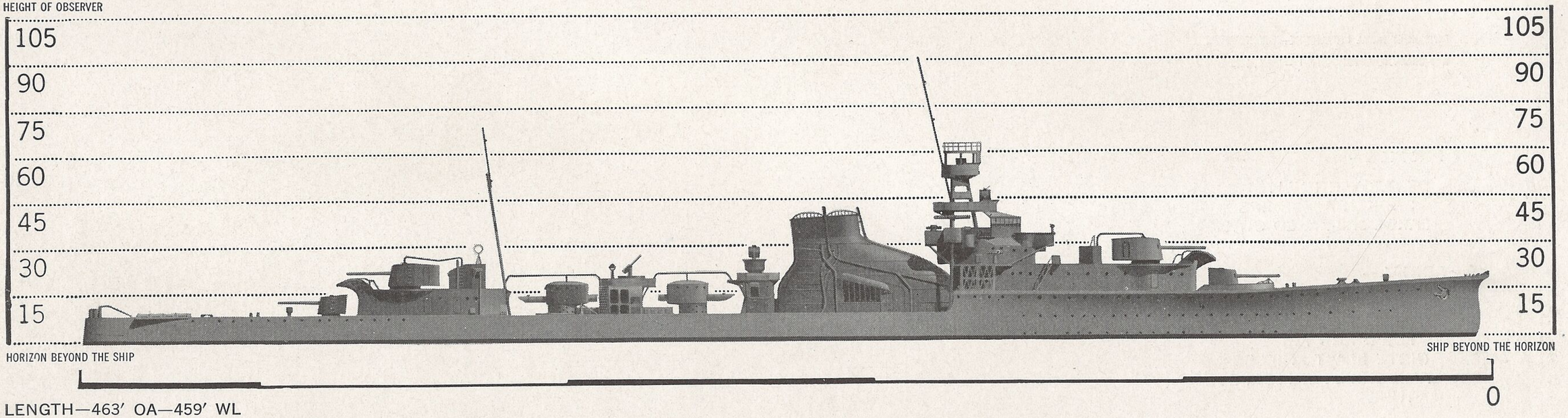
NAGARA 1937 ↓



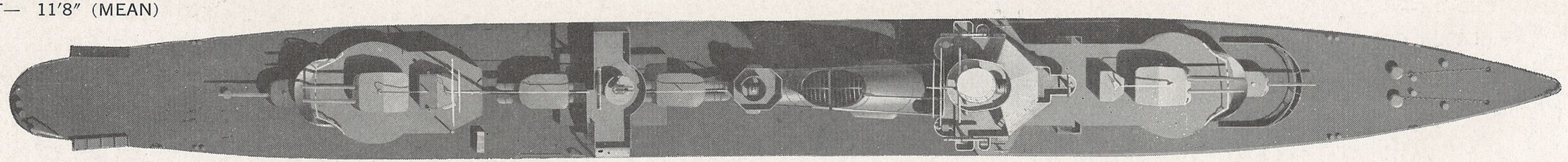
ONI 41-42 RESTRICTED

YUBARI—CL 14

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL, 1943

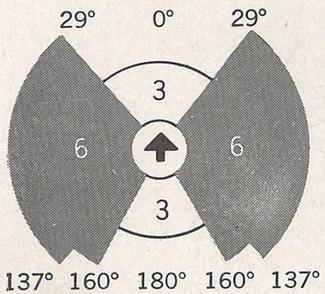


LENGTH—463′ OA—459′ WL
BEAM— 39′6″
DRAFT— 11′8″ (MEAN)



DISPLACEMENT—2,890 TONS (STANDARD)—3,100 TONS (NORMAL)

DENSITY OF FIRE
MAIN BATTERY



ARMAMENT

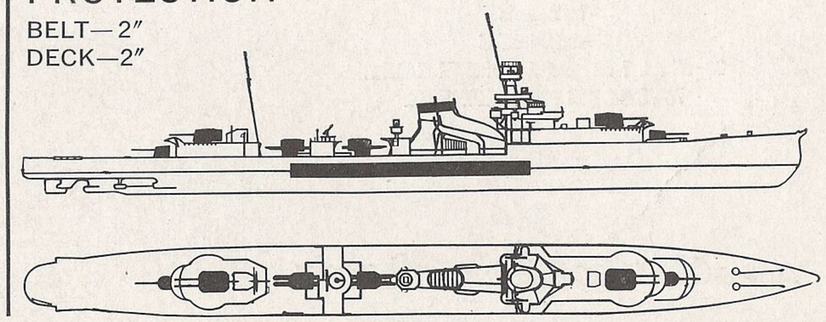
	MAX. ELEV.	MAX. RANGE (HORIZONTAL)	MAX. RANGE (VERTICAL)
6–5″5 (50)	45°	20,000 YARDS	
1–3″ (40)	85°	9,000 YARDS	20,000 FEET
4–21″ TORPEDO TUBES	50 MINES		

PROPULSION

MACHINERY— GEARED TURBINES
BOILERS— EIGHT KAMPON
FUEL— OIL, 820 TONS
DESIGNED H.P.—57,000 DESIGNED SPEED—33 KNOTS
ENDURANCE— 5,500 MILES @ 10 KNOTS—1,400 MILES @ 33 KNOTS

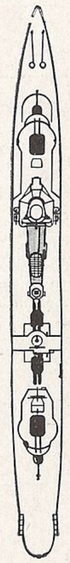
PROTECTION

BELT—2″
DECK—2″



YUBARI—CL 14

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL, 1943



PROFILE— →

DESTROYER HULL,
BROKEN AMIDSHIPS
LARGE JAP-RAKED STACK

←**AERIAL—**

TWIN SHIELDS SUPER-IMPOSING SINGLES, FOR'D AND AFT
(NOTE BLAST SHIELDS)
AMIDSHIPS TWIN TORPEDO TUBES

END-ON—

EASILY CONFUSED WITH DESTROYERS

MISTAKEN IDENTITY

THIS SHIP HAS CONSISTENTLY BEEN REPORTED FOR THE—
CA—MOGAMI CLASS
TONE CLASS
CL—KATORI CLASS
DD—UN NO. 1 AND OTHER DESTROYER CLASSES.
TORPEDO BOATS AND MINESWEEPERS.

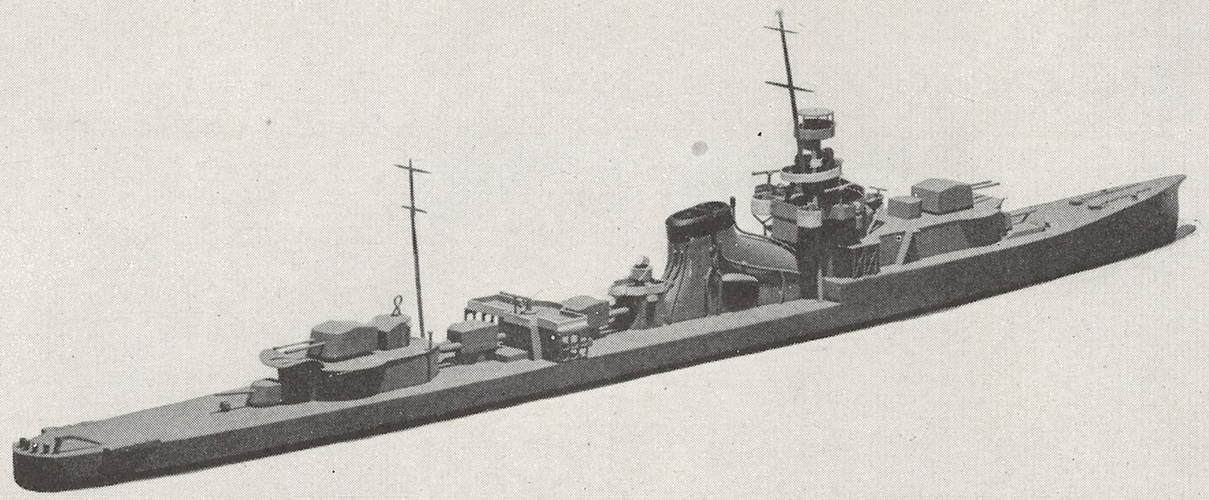
YUBARI CL-14

AERIAL VIEWS

45°

90°

135°

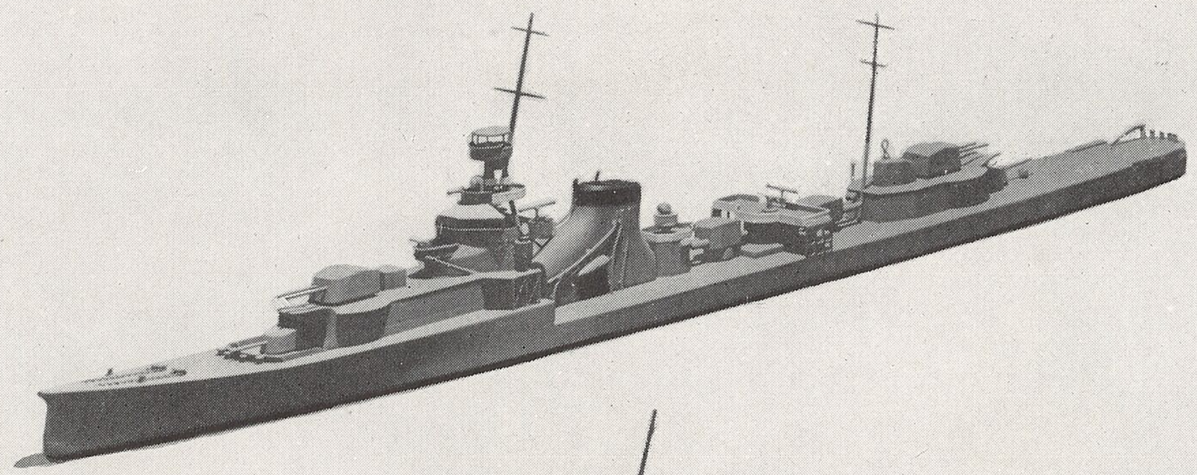


15° ELEVATION

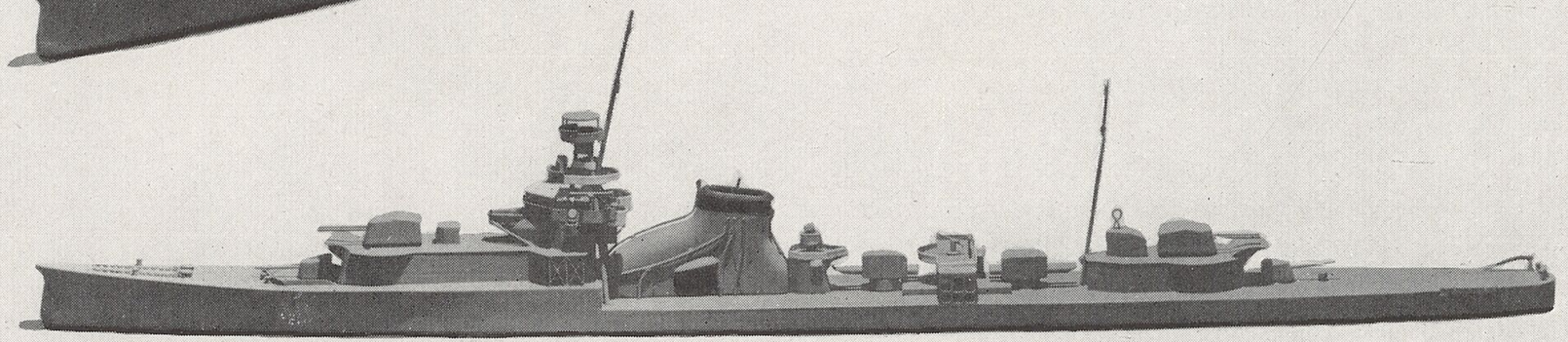
ONI 41-42

0°

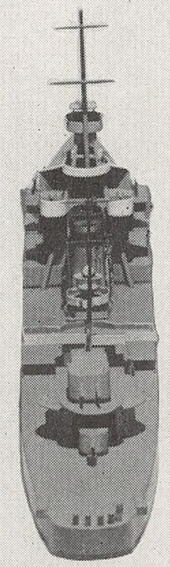
315°



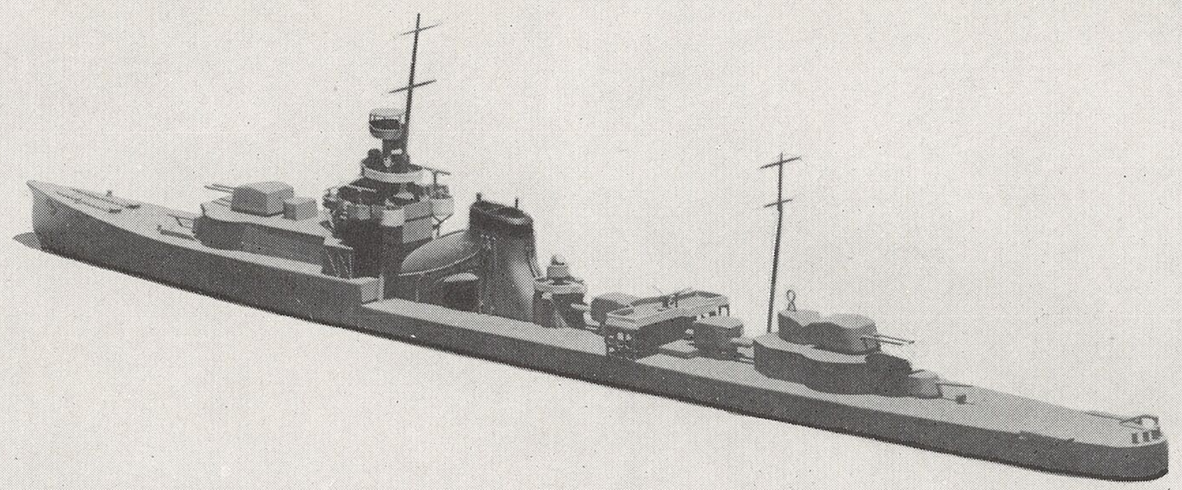
270°



180°



225°

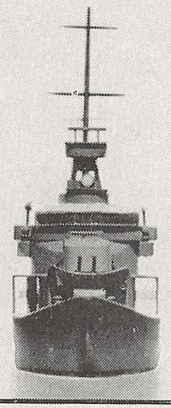


YUBARI—CL 14

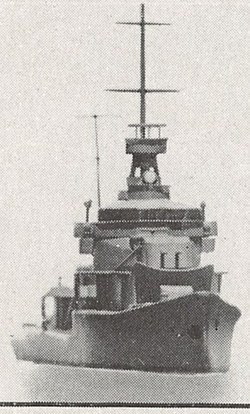
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

TARGET ANGLES

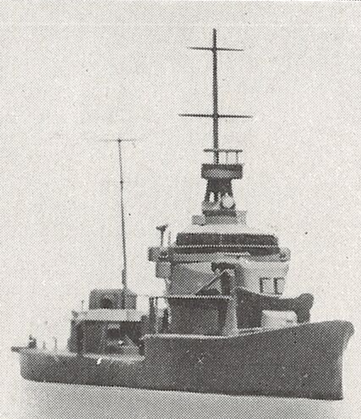
0°



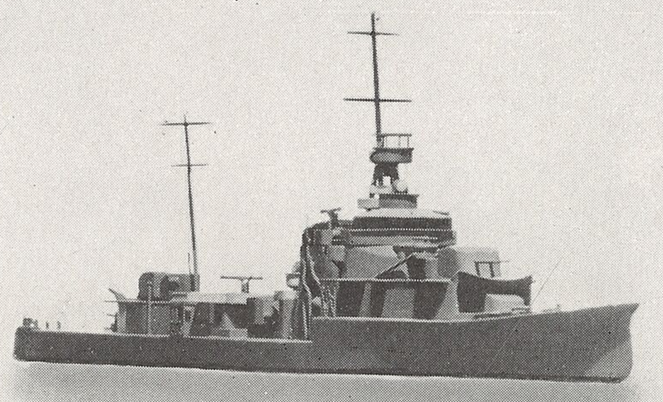
5°



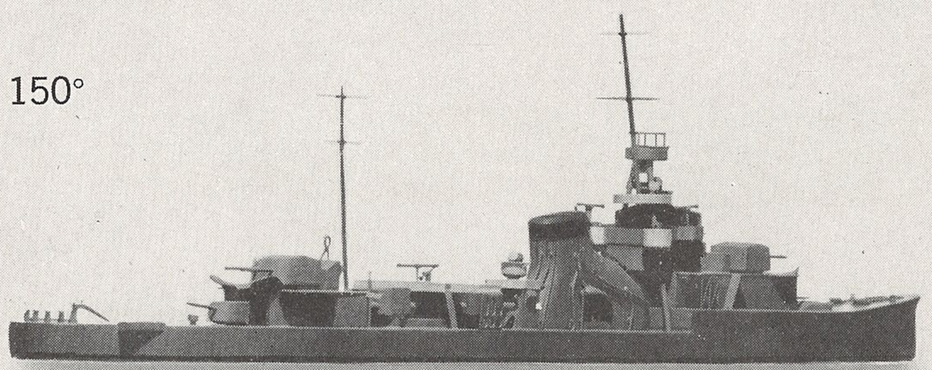
10°



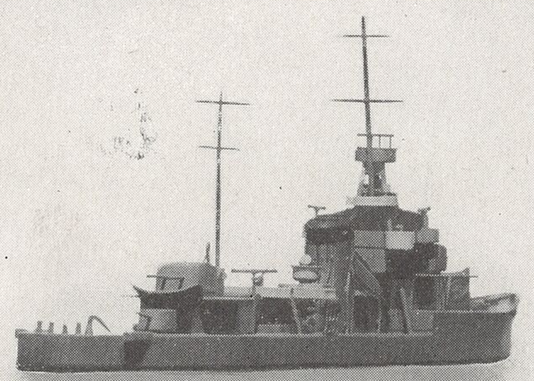
20°



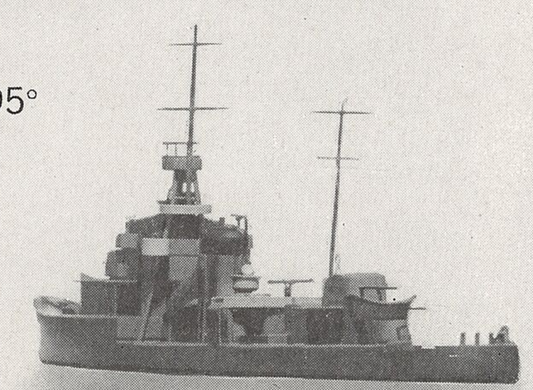
150°



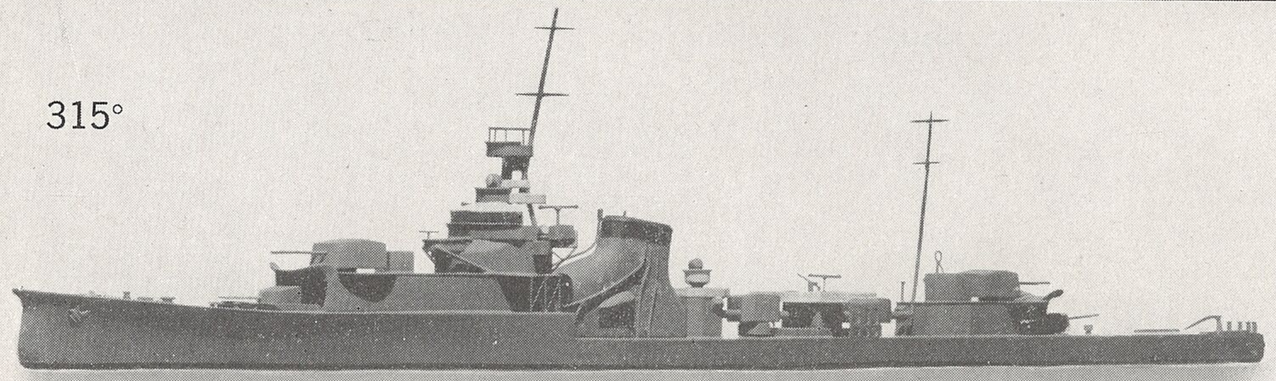
165°



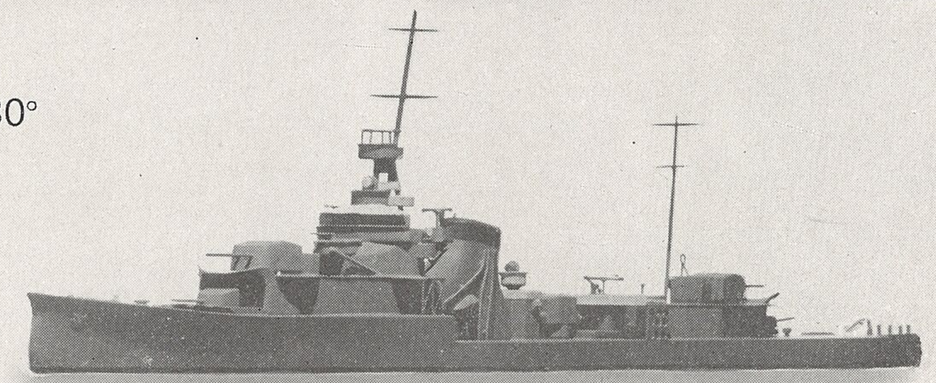
195°



315°

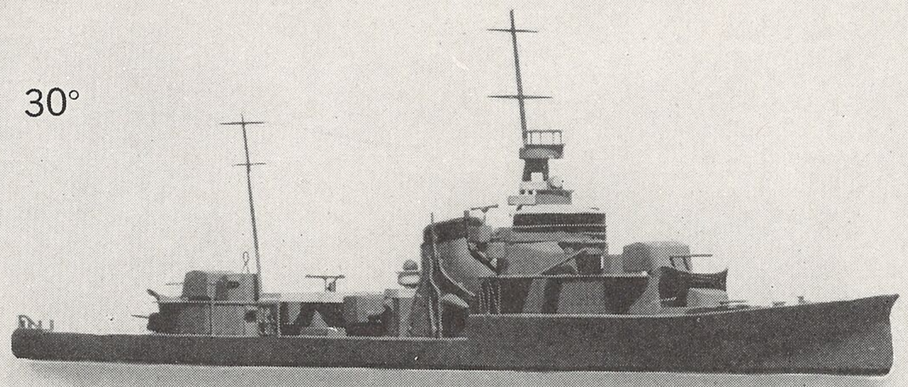


330°

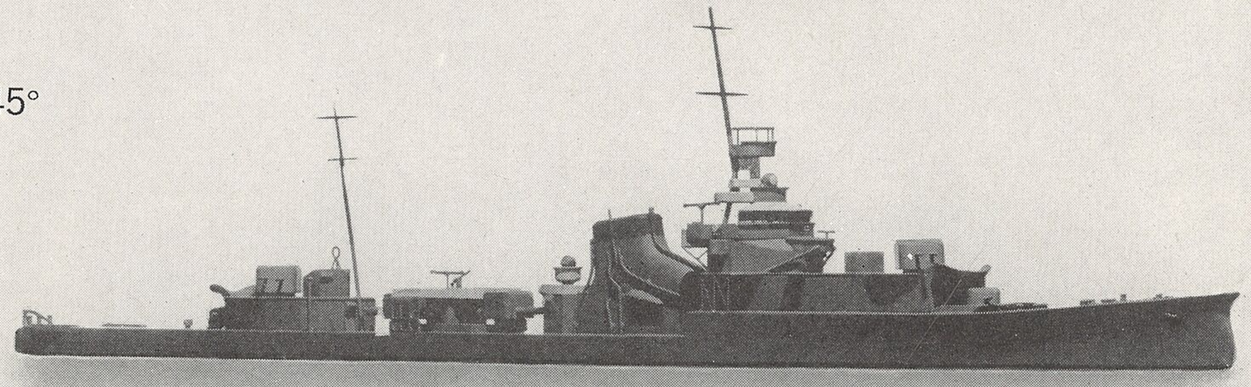


KNOTS	RPM	KNOTS	RPM	KNOTS	RPM	KNOTS	RPM
33	410		300		200		100
	375		275		175		75
	350		250		150		50
	325		225		125		25

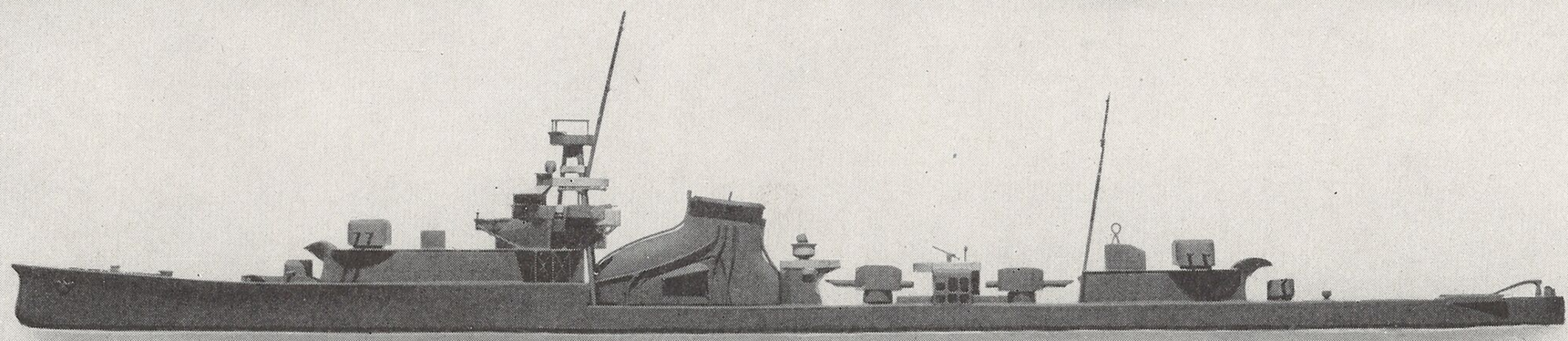
30°



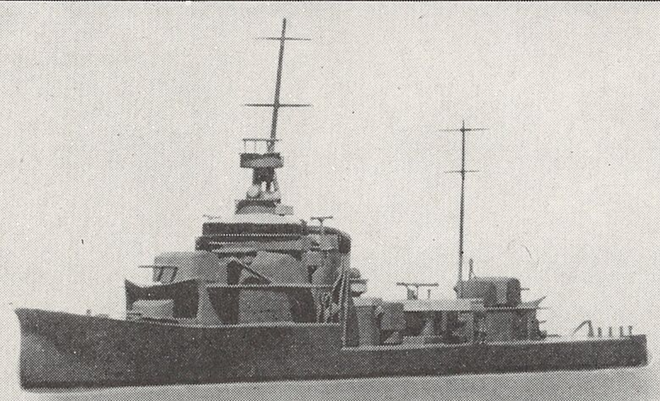
45°



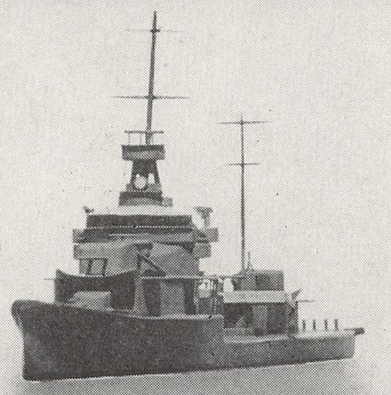
270°



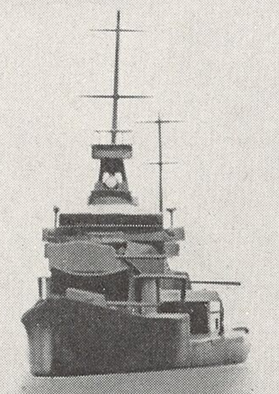
340°



350°



355°



YUBARI—CL 14

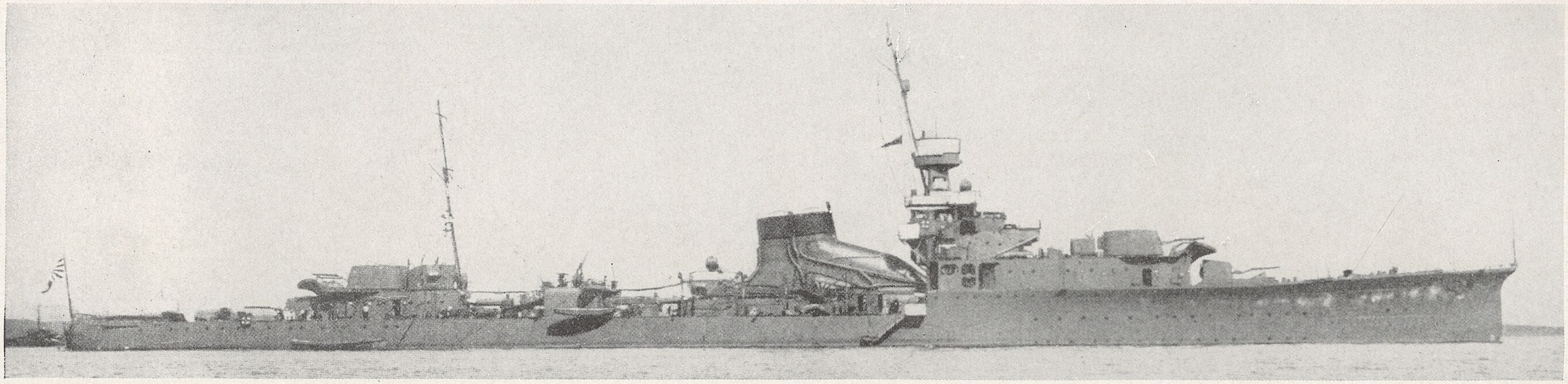
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

BEGUN
6/5/22

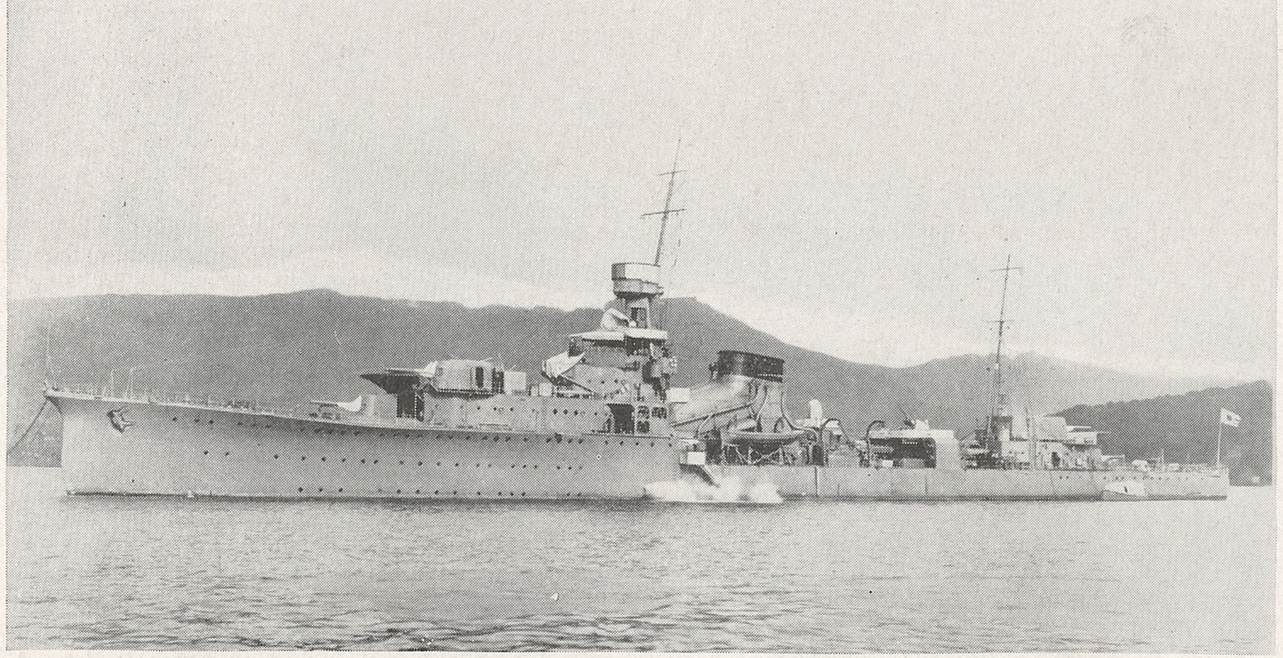
COMPLETED
7/21/23

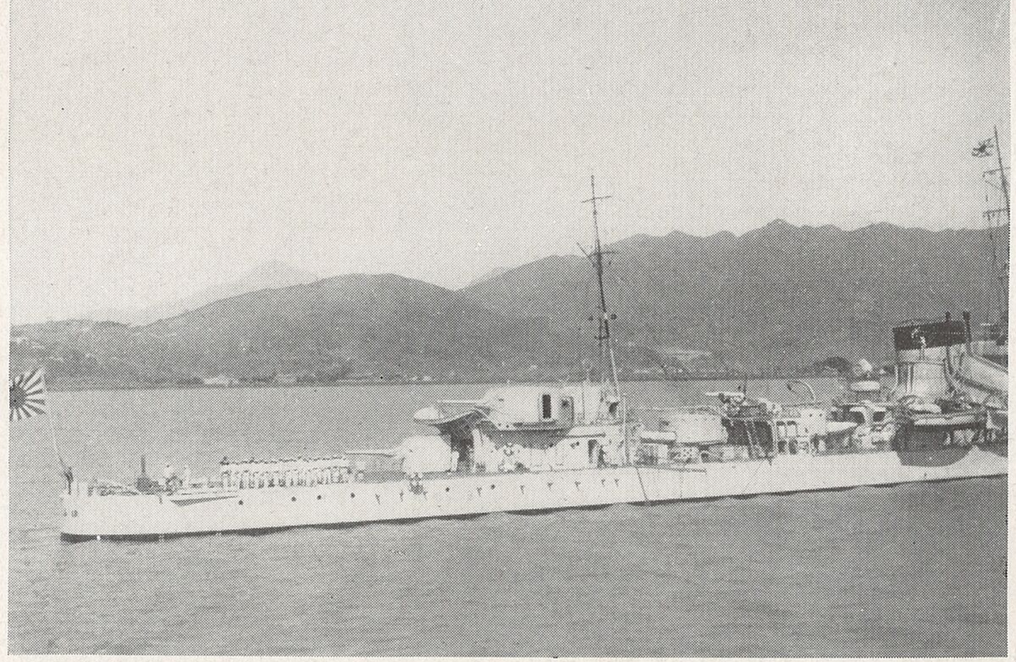
ONI 41-42

RESTRICTED



↓ 1936 ↑ 1937 1939 ↓





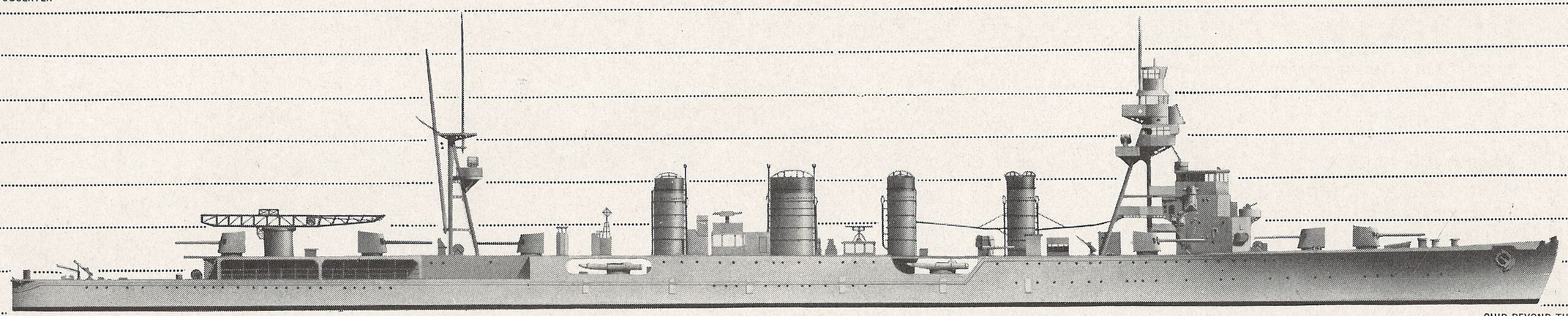
ONI 41-42 RESTRICTED

SENDAI CLASS—CL15-17

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—NOVEMBER, 1942

HEIGHT OF OBSERVER

105 90 75 60 45 30 15



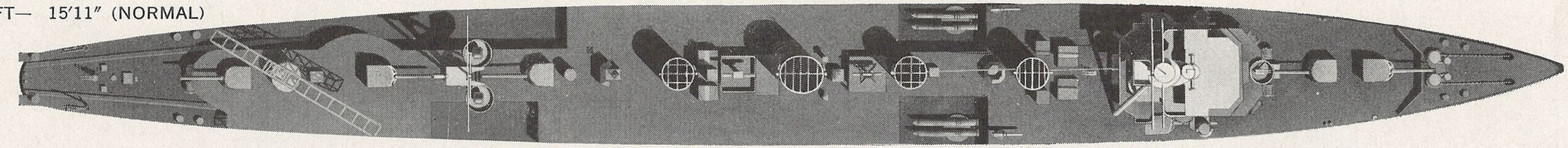
105 90 75 60 45 30 15

HORIZON BEYOND THE SHIP

SHIP BEYOND THE HORIZON

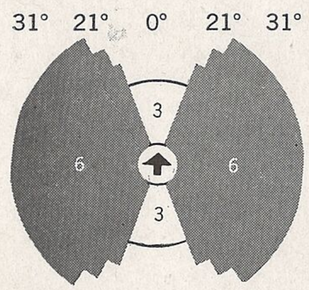
0

LENGTH—535′ OA
BEAM— 47′3″
DRAFT— 15′11″ (NORMAL)



DISPLACEMENT—5,195 TONS (STANDARD)—5,595 TONS (NORMAL)

DENSITY OF FIRE
MAIN BATTERY



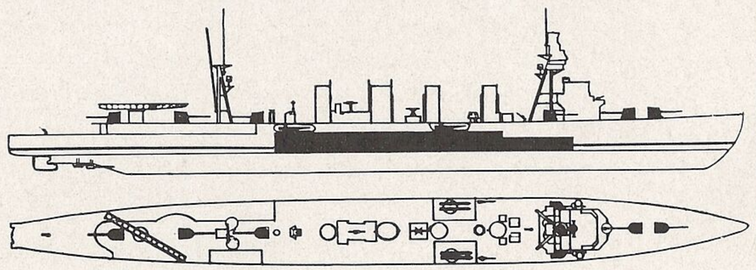
ARMAMENT

	MAX. ELEV.	RANGE
7–5″.5 (50)	25°	19,000 YD.
2–3″ (40)	85°	9,000 YD.

8-21″ TORPEDO TUBES, TWIN MOUNTS
80 MINES
1 CATAPULT, 1 SCOUT OBSERVATION

PROPULSION

MACHINERY—4 CURTIS PARSONS BOILERS—16 KAMPON
FUEL—OIL 1500 TONS—COAL
DES HP— 90,000 ENDURANCE—1300 @ 33 KNOTS
DES SPEED—33 KNOTS 7800 @ 10 KNOTS



PROTECTION

BELTS— 2″ TURRETS— BARBETTES—
CONNING TOWER—2″ DECK—

SENDAI CLASS

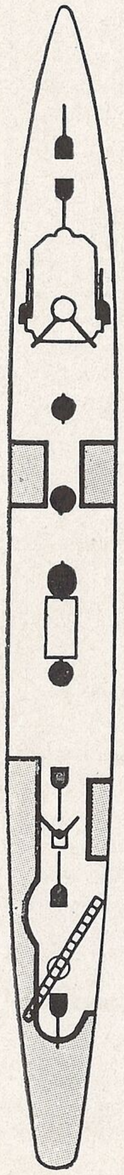
SENDAI CL 15

JINTSU CL 16 (ZINTU)

NAKA CL 17

SENDAI CLASS— CL 15-17

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION — AUGUST, 1943



PROFILE— →

4 SINGLE PIPE STACKS (FOR'D STACK MAY BE HIGH ON SOME) TRIPOD FORE-MAST TRIPOD MAINMAST

←

AERIAL—

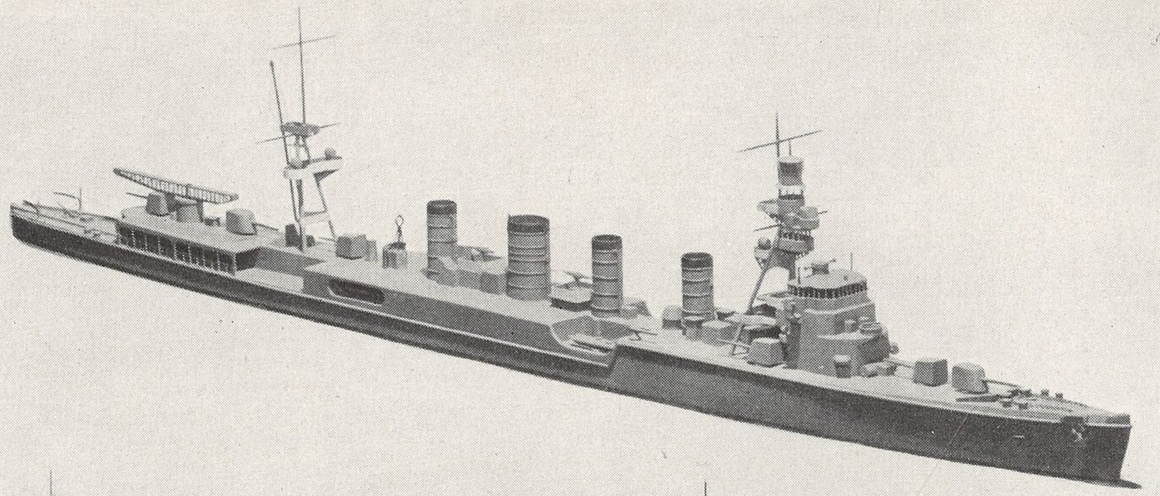
TORPEDO WELL BETWEEN FOR'D STACKS
GUNSHIELDS:
2 FOR'D
2 ABREAST BRIDGE
3 AFT
CATAPULT AFT OF MAIN-MAST

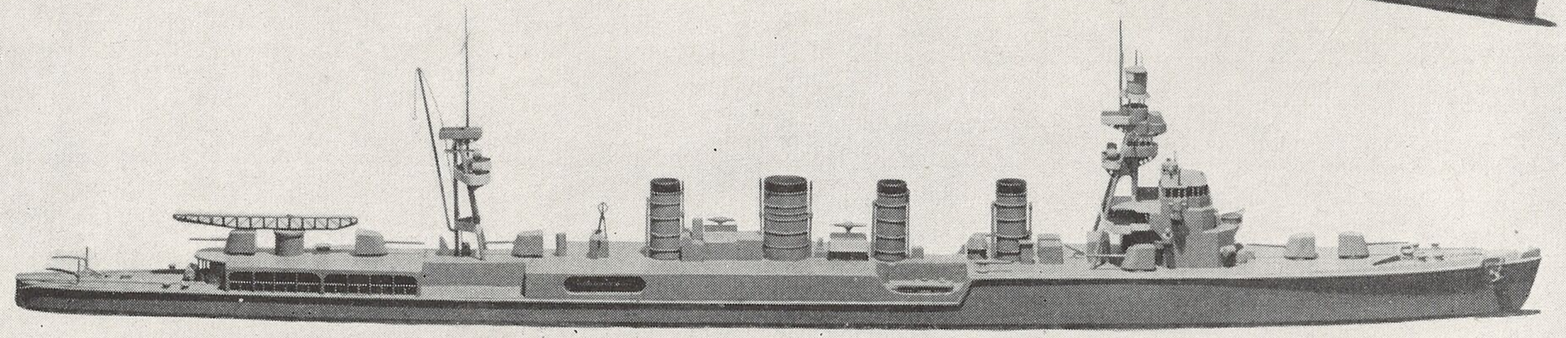
END-ON— ↑

MAY EASILY BE MISTAKEN FOR NATORI OR KUMA CLASS SHIPS

AERIAL VIEWS

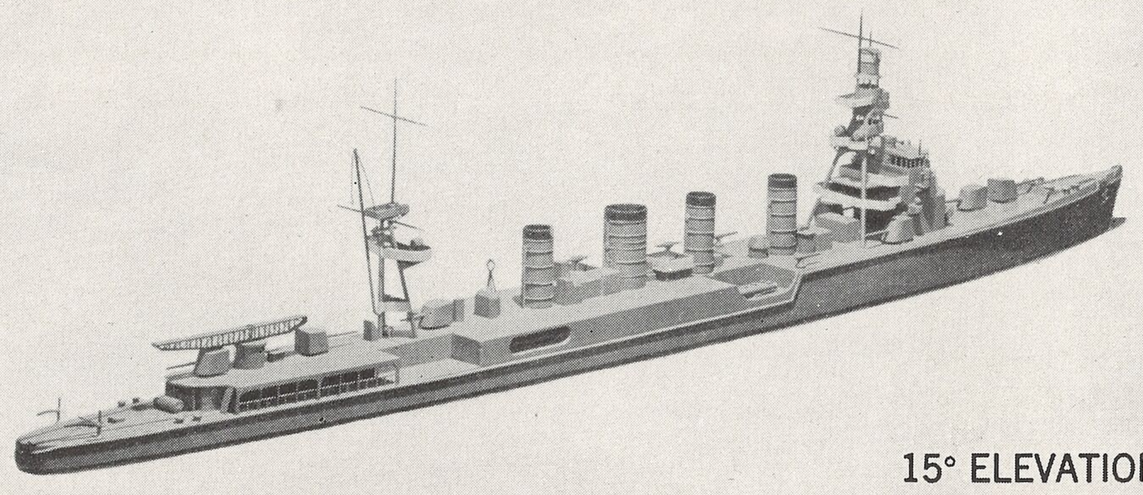
45°





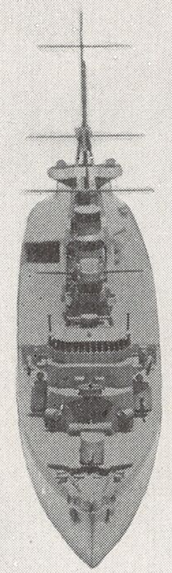
90°

135°

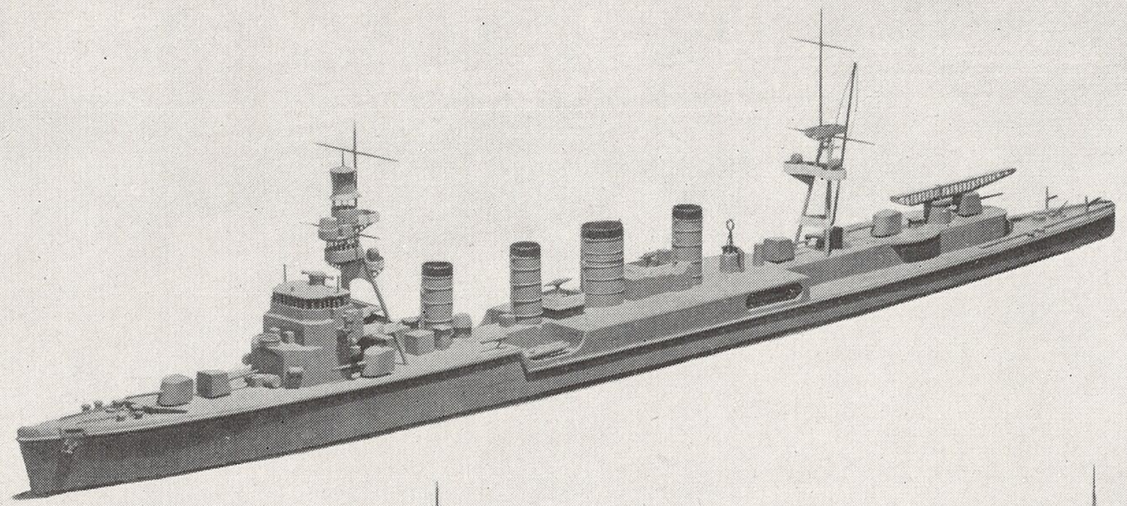


15° ELEVATION

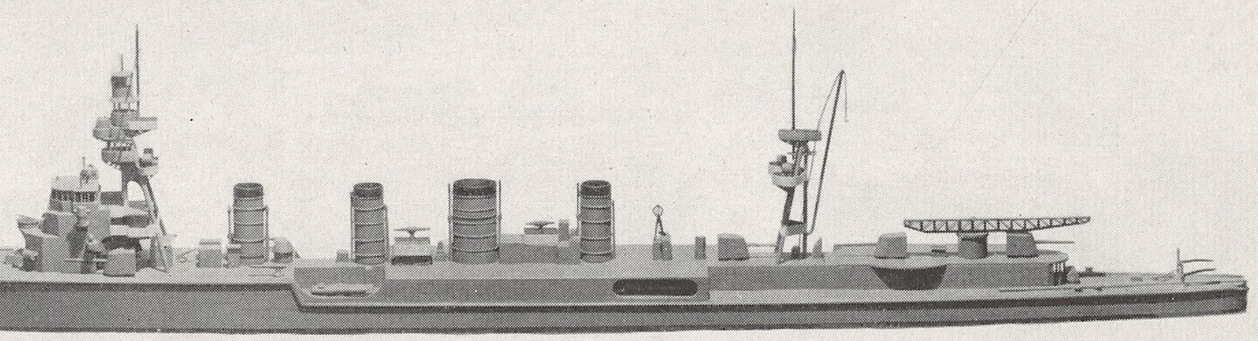
0°



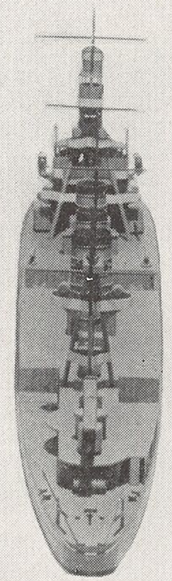
315°



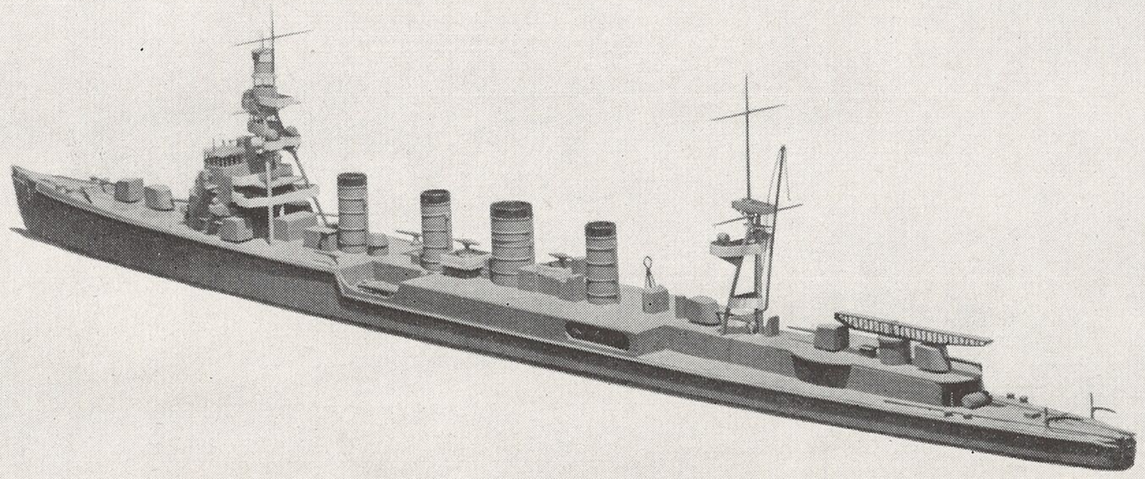
270°



180°



225°

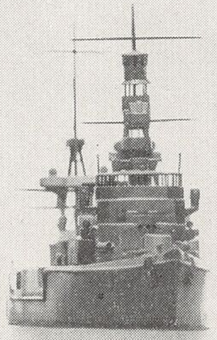


SENDAI CLASS—CL 15-17

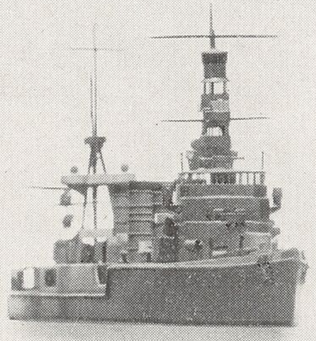
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

0°

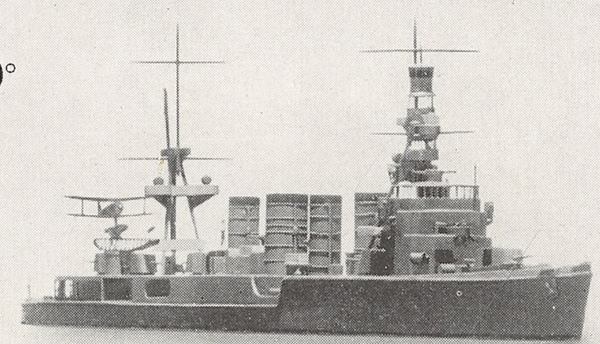
5°



10°



20°



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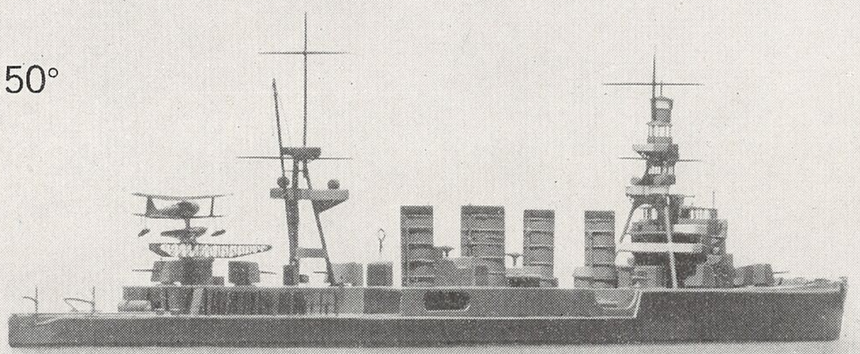
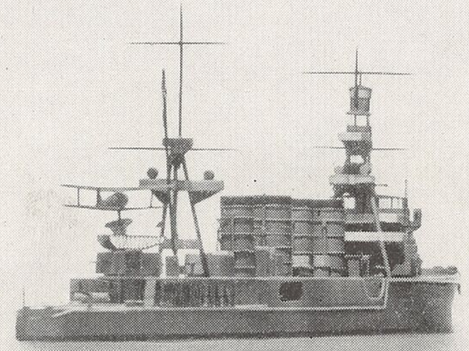
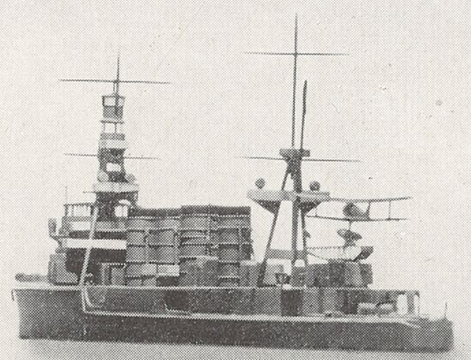


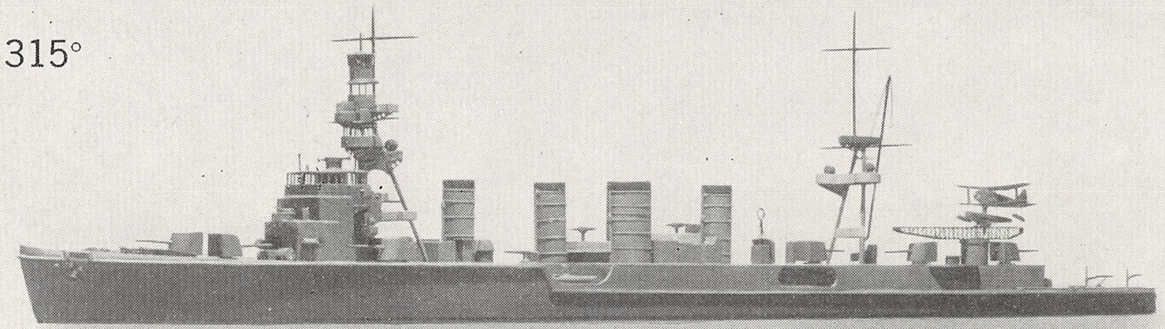
165°



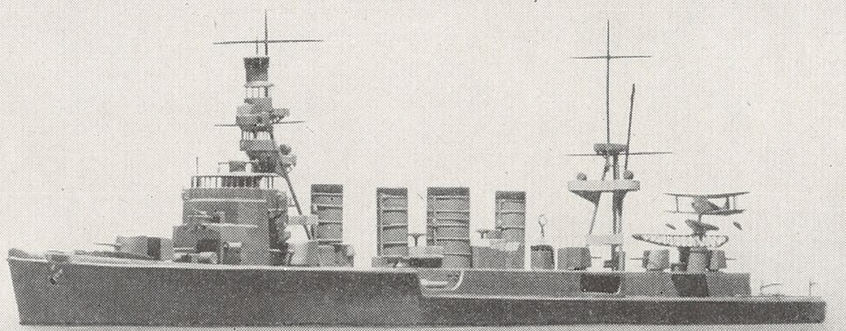
195°



315°



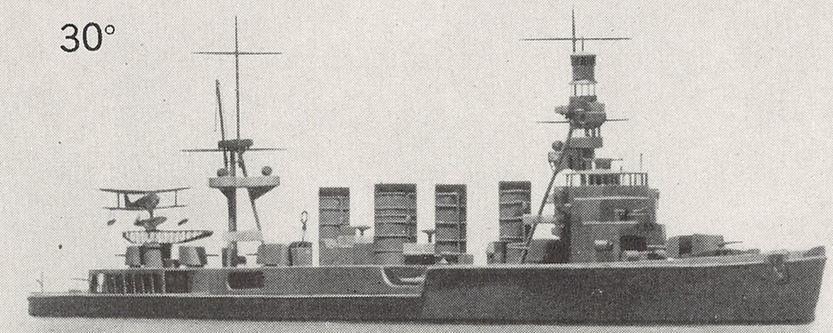
330°



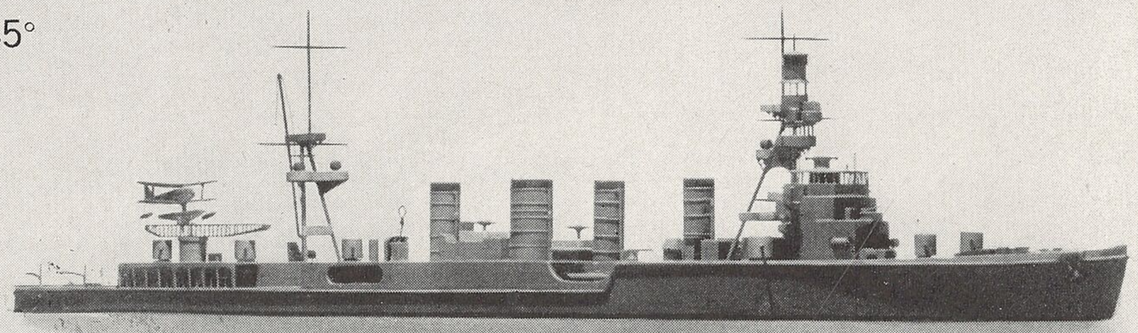
KNOTS	RPM	KNOTS	RPM	KNOTS	RPM	KNOTS	RPM
	400		300		200		100
33	370		275		175		75
	350		250		150		50
	325		225		125		25

ONI 41-42

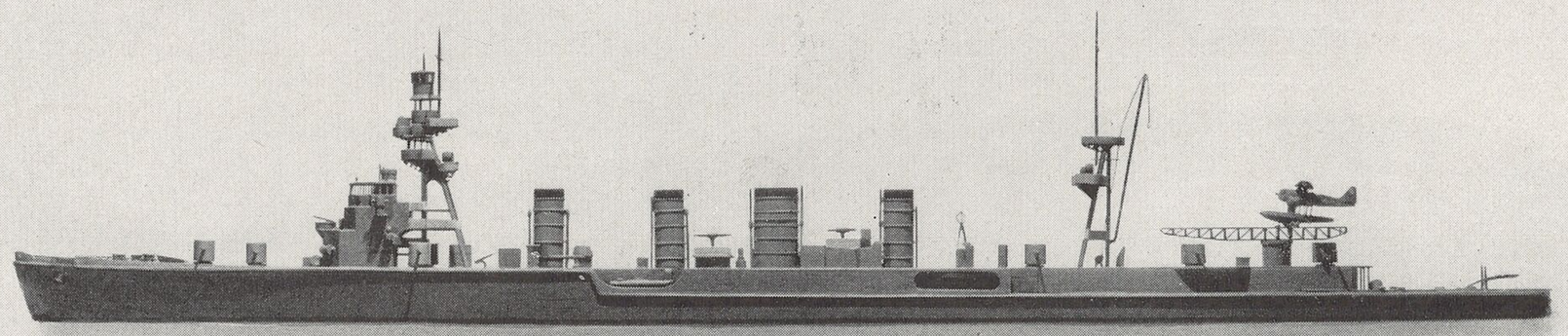
30°



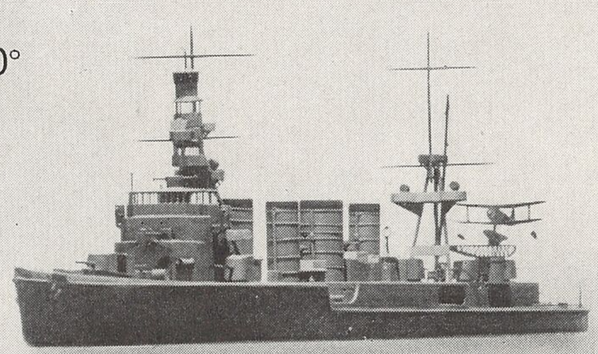
45°



270°



340°



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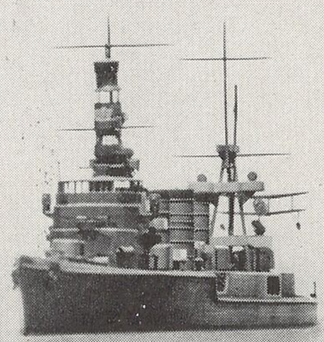
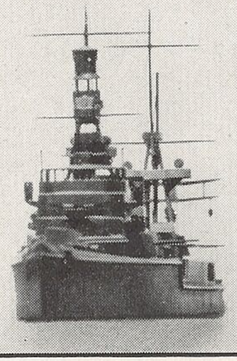


355°



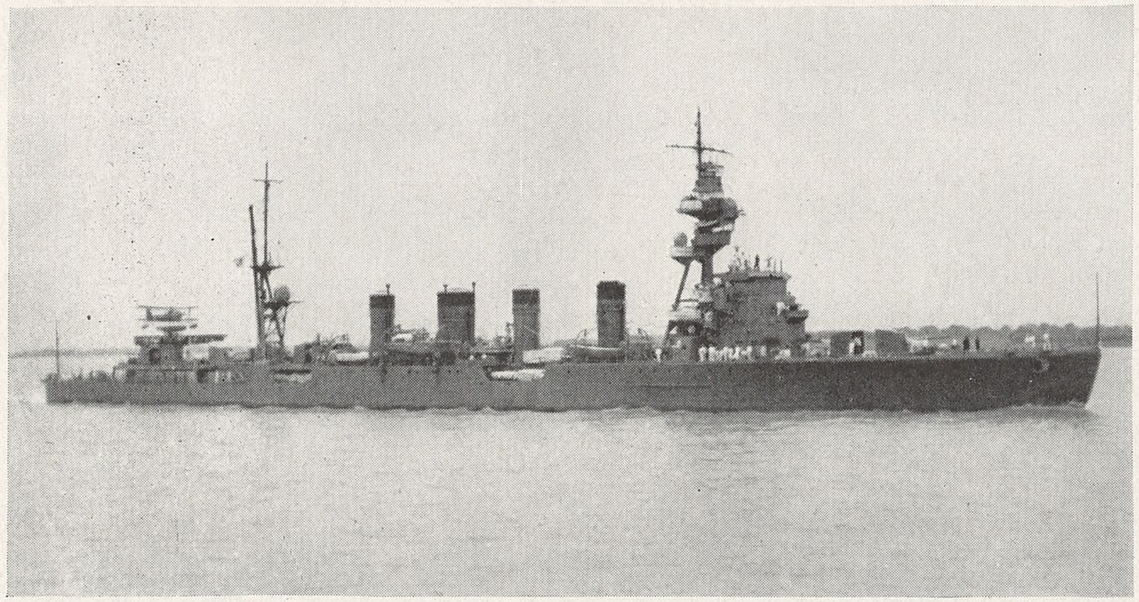
SENDAI CLASS—CL 15-17

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—NOVEMBER, 1942

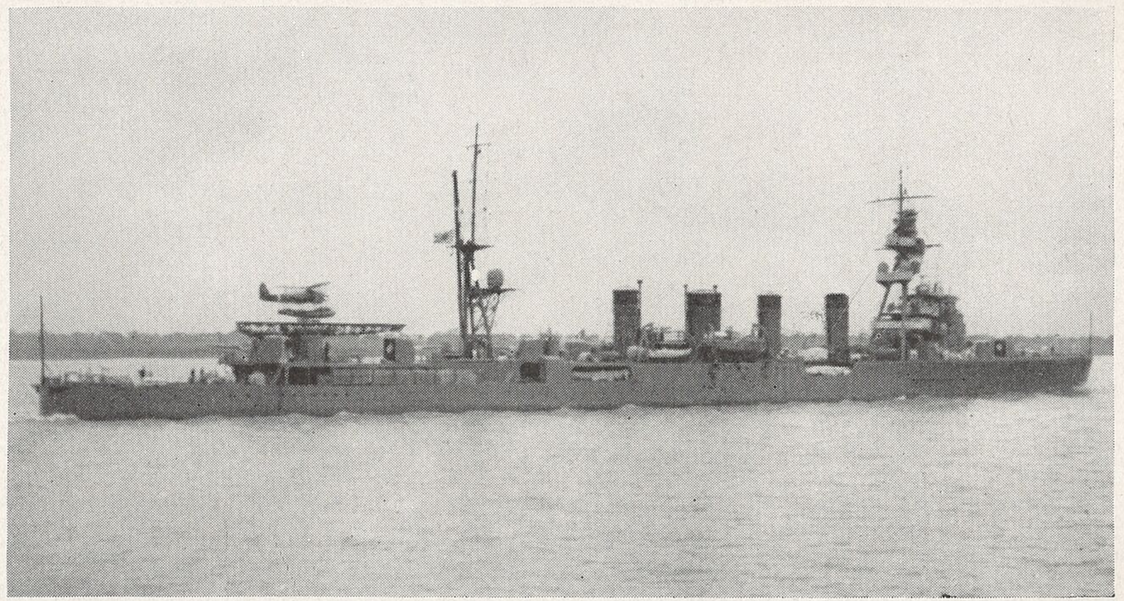
		BEGUN	COMPLETED
SENDAI	CL15	2/16/22	4/29/24
JINTSU	CL16	8/4/22	7/31/25
NAKA	CL17	6/10/22	11/30/25

ONI 41-42

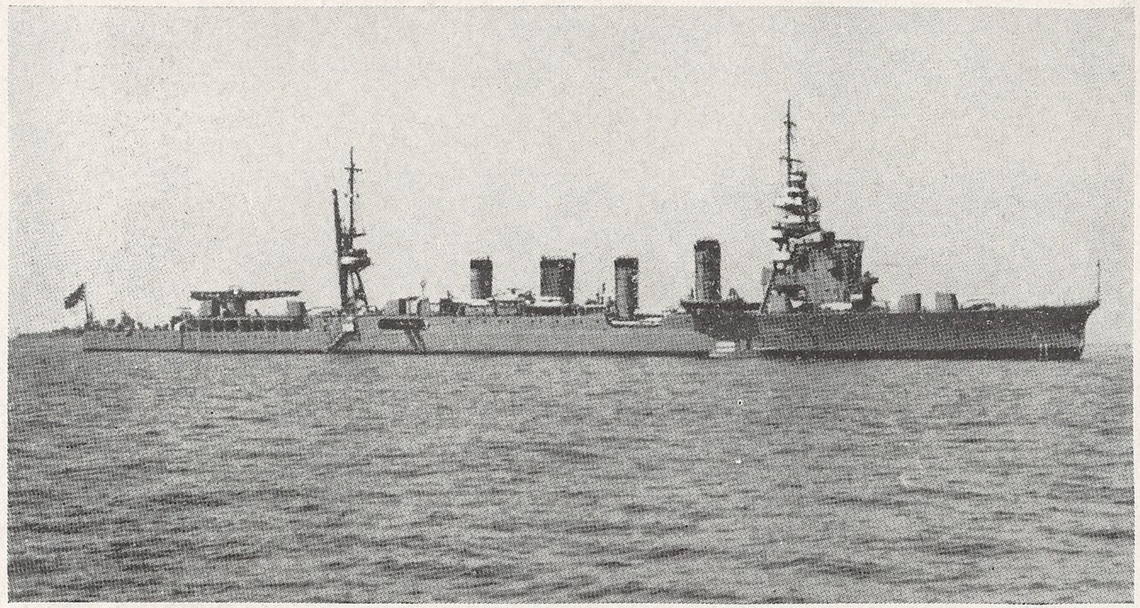
RESTRICTED



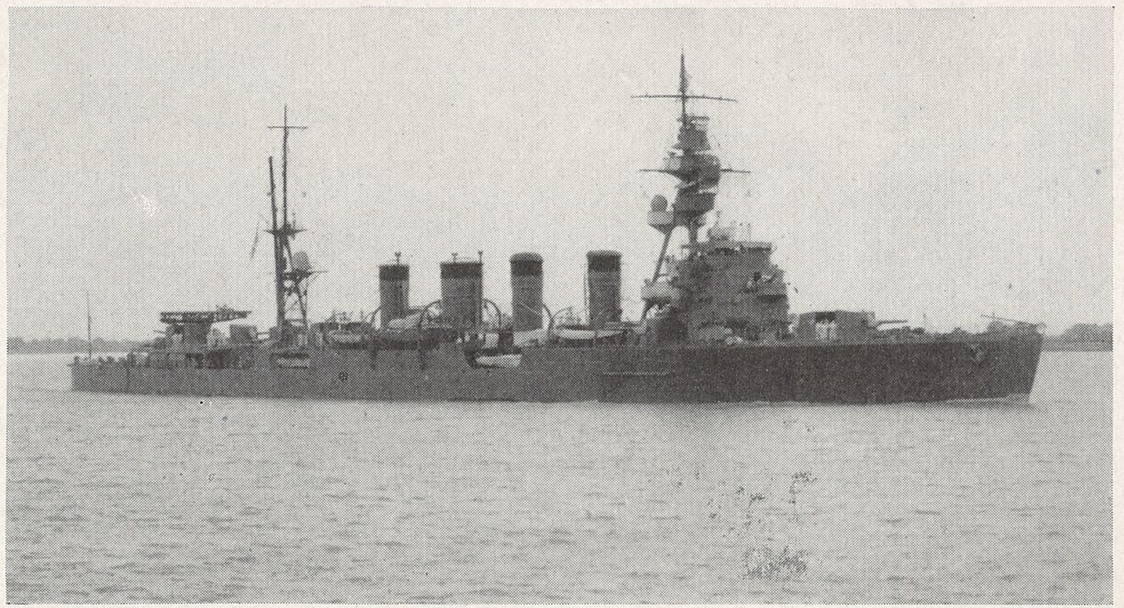
SENDAI 8/37 NOTE CUTTER BOW—JINTSU, NAKA HAVE HOOKED BOW



SENDAI 8/37



JINTSU—NAKA HAS MAINMAST TRIPOD REVERSED



SENDAI 8/16/37

ONI 41-42 RESTRICTED

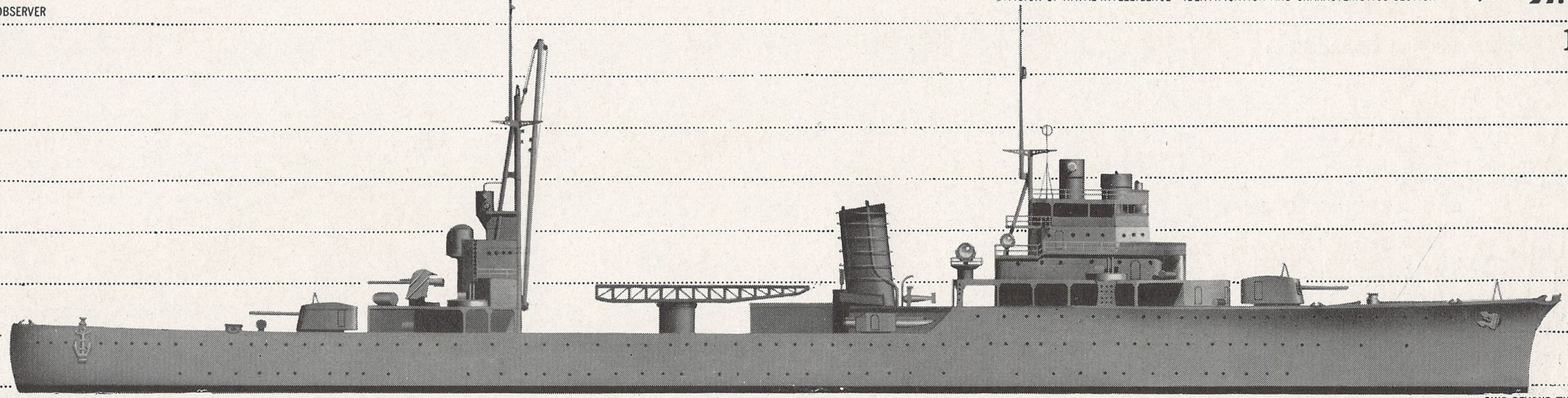
OFFICIALLY RATED AS TRAINING CRUISERS

KATORI CLASS—CL18-20

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

HEIGHT OF OBSERVER

105 90 75 60 45 30 15

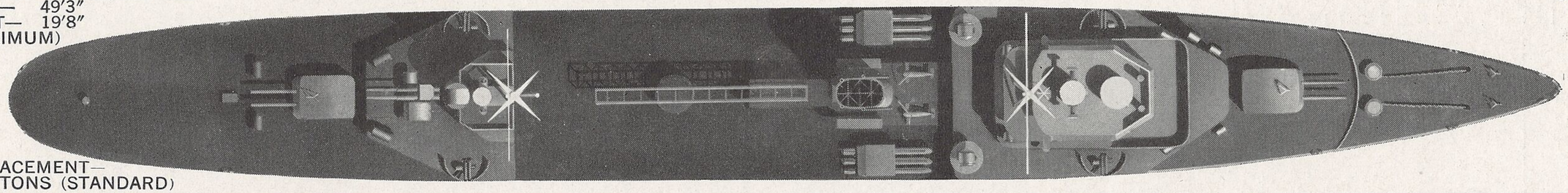


HORIZON BEYOND THE SHIP

SHIP BEYOND THE HORIZON

LENGTH—452′ OA, 440′ WL
BEAM— 49′3″
DRAFT— 19′8″
(MAXIMUM)

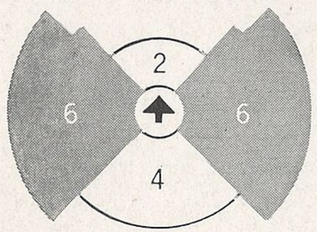
0



DISPLACEMENT—
6,000 TONS (STANDARD)

DENSITY OF FIRE
MAIN BATTERY

49° 42° 0° 42° 49°



135° 180° 135°

ARMAMENT

	MAX. ELEV.	MAX. RANGE (HORIZONTAL)	MAX. RANGE (VERTICAL)
4–5″.5 (50)	30°	19,000 YARDS	
2–5″ (50)	85°	18,000 YARDS	20,000 FEET

4–21″ TORPEDO TUBES

1 CATAPULT—1 SCOUT OBSERVATION

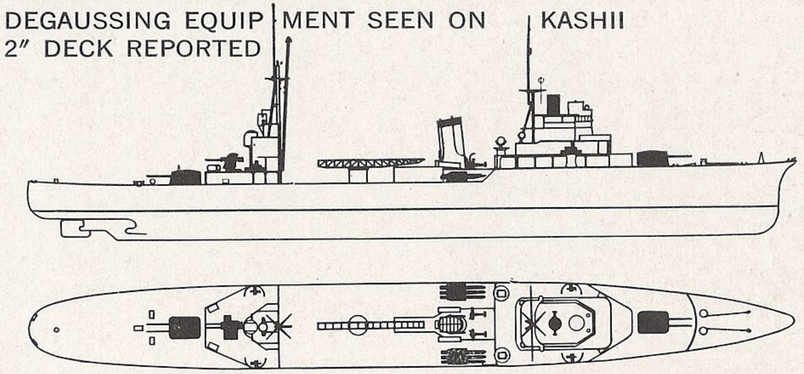
PROPULSION

DESIGNED HP— 8,000

DESIGNED SPEED—18 KNOTS (ANNOUNCED)

PROTECTION

DEGAUSSING EQUIPMENT SEEN ON KASHII
2″ DECK REPORTED



KATORI CLASS

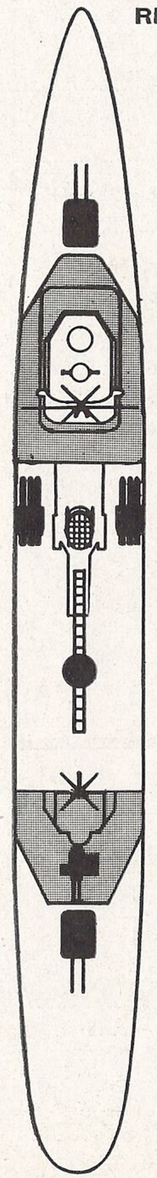
KATORI— CL 18

KASHIMA (KASIMA)—CL 19

KASHII (KASII)—CL 20

KATORI CLASS —CL 18-20

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL, 1943



READY RECOGNITION

PROFILE →

CRUISER HULL, BROKEN AMIDSHIPS (NOTE EXTREME FREEBOARD)

HEAVY ISLAND SUPER-STRUCTURES, TOPPED BY TRIPODS

RAKED SINGLE-PIPE STACK

AERIAL

TURRETS—
SINGLE TWIN FORWARD
SUPERIMPOSED TWINS AFT

AMIDSHIPS CATAPULT

←

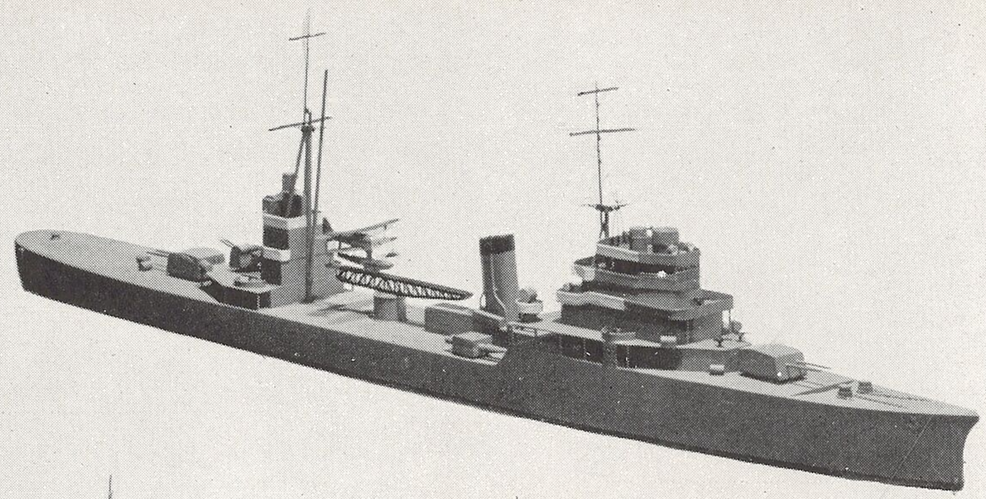
END-ON

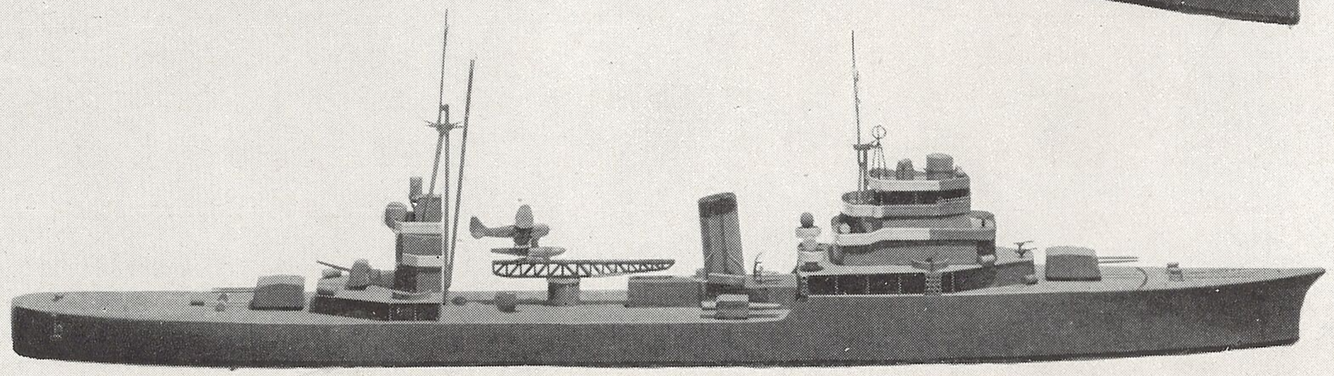
MAY BE MISTAKEN FOR OTHER CL's OR CA's

↓

AERIAL VIEWS

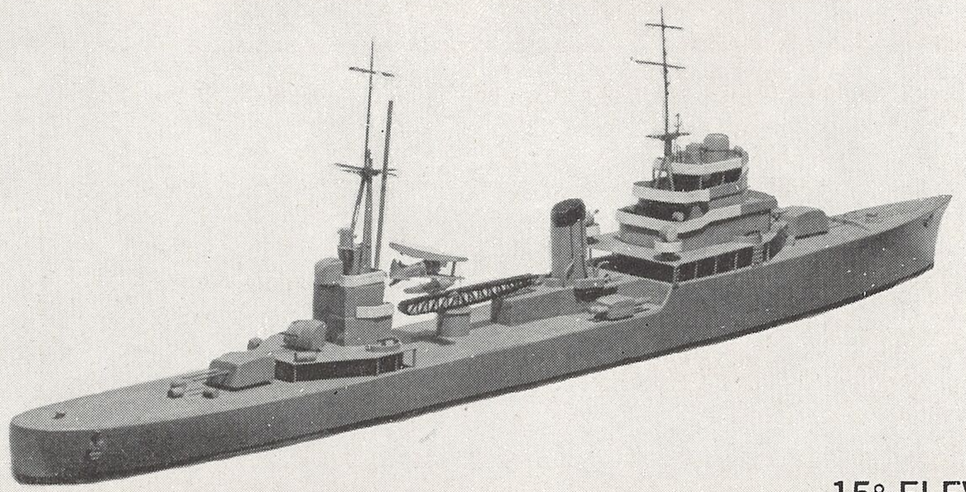
45°





90°

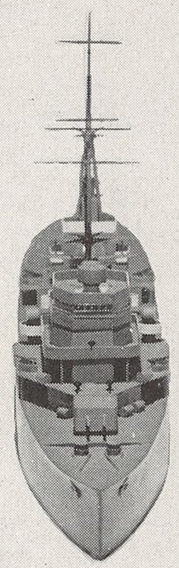
135°



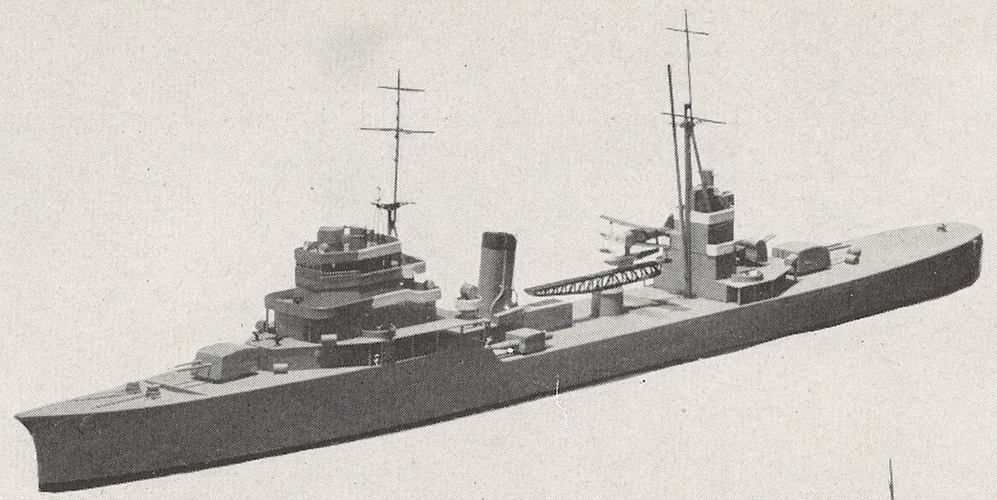
15° ELEVATION

ONI 41-42

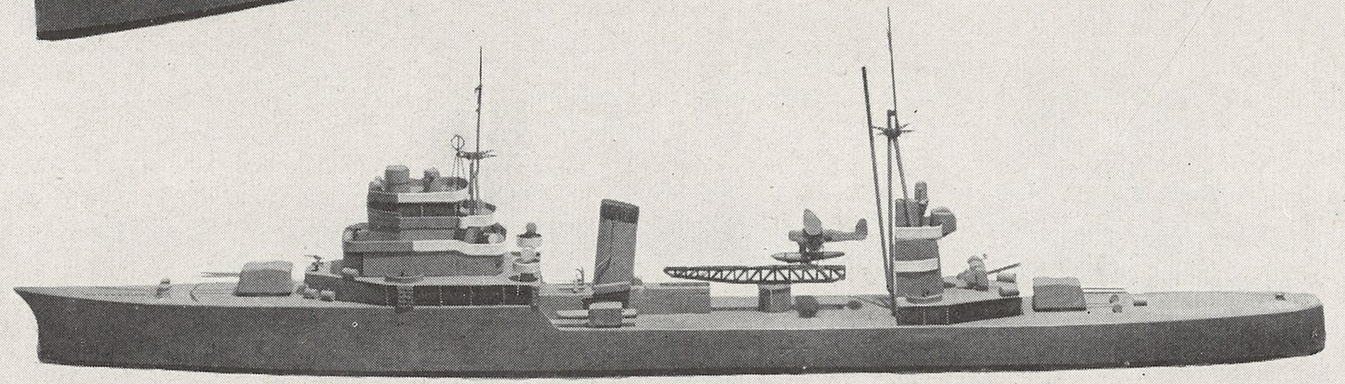
0°



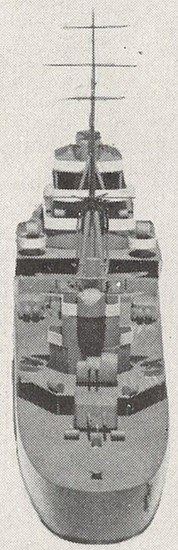
315°



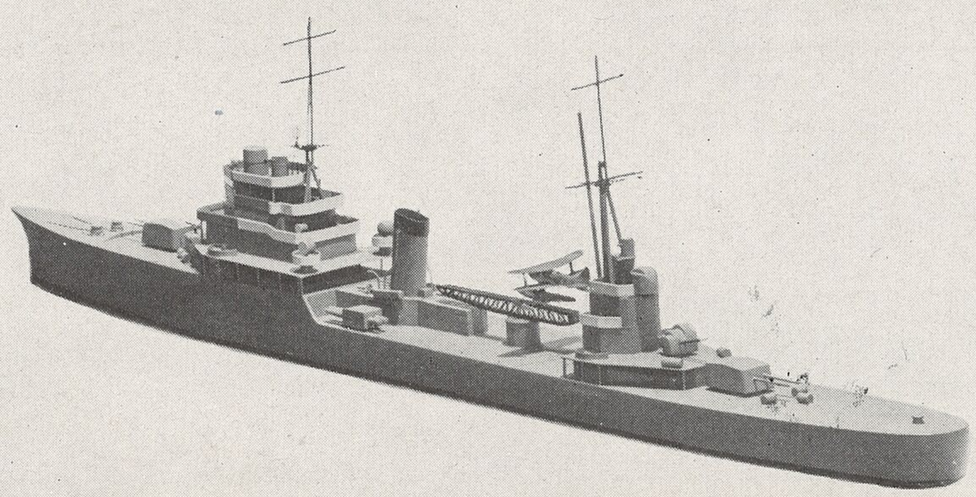
270°



180°



225°



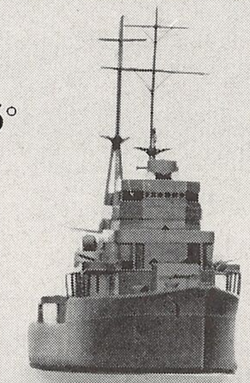
KATORI CLASS—CL 18-20

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL, 1943

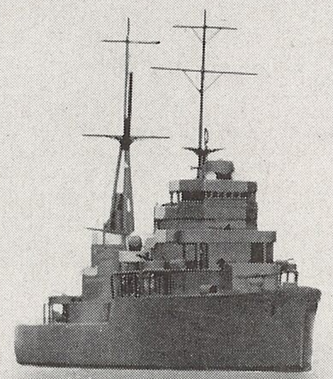
TARGET ANGLES

0°

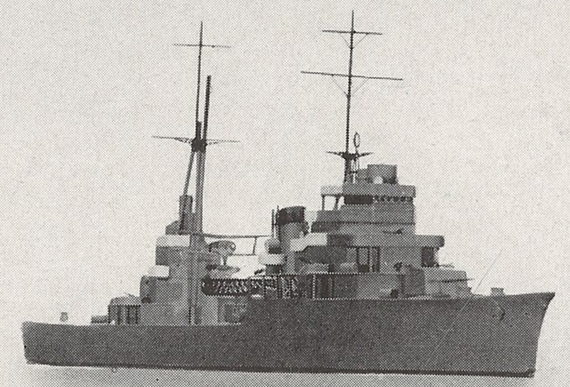
5°



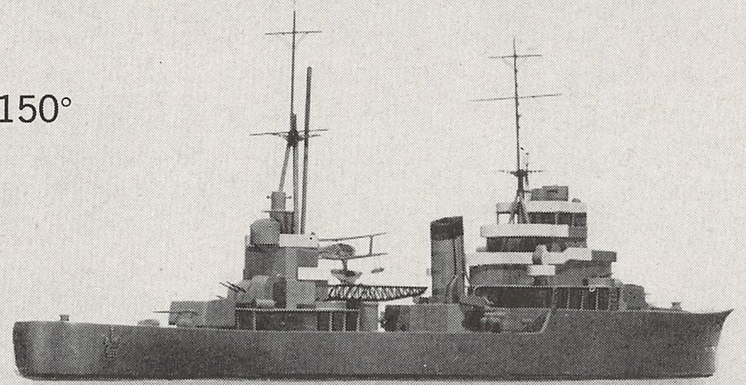
10°



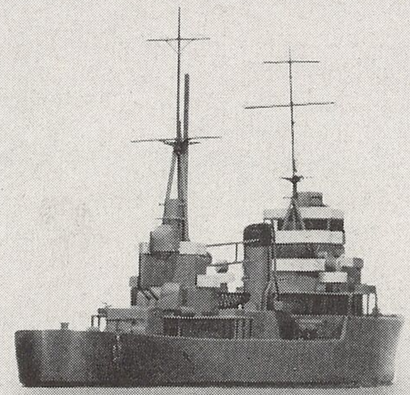
20°



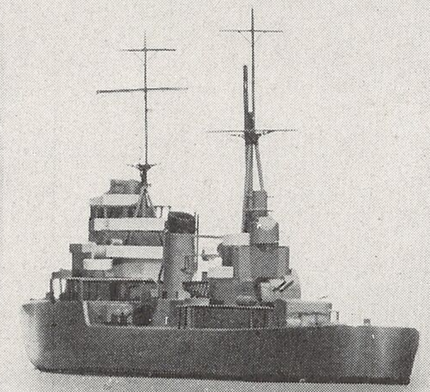
150°



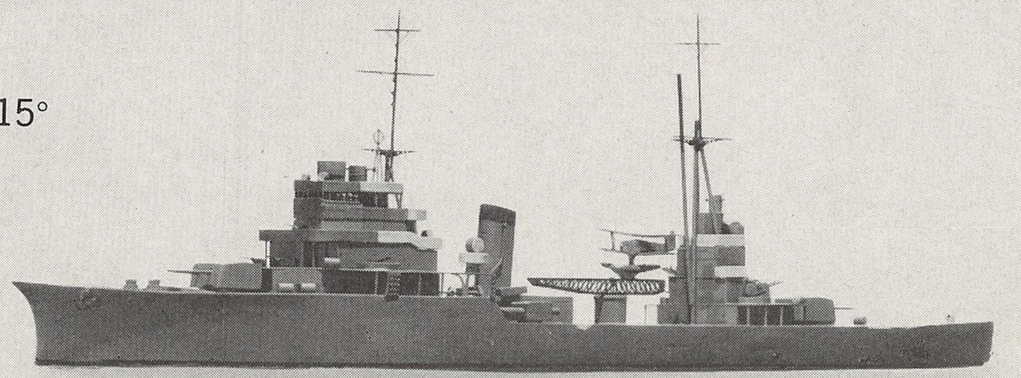
165°



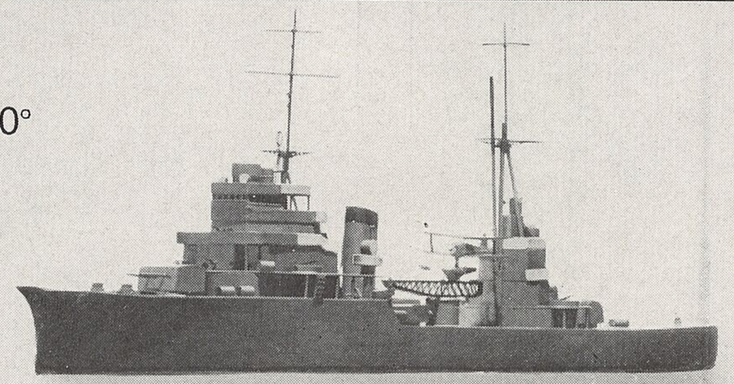
195°



315°



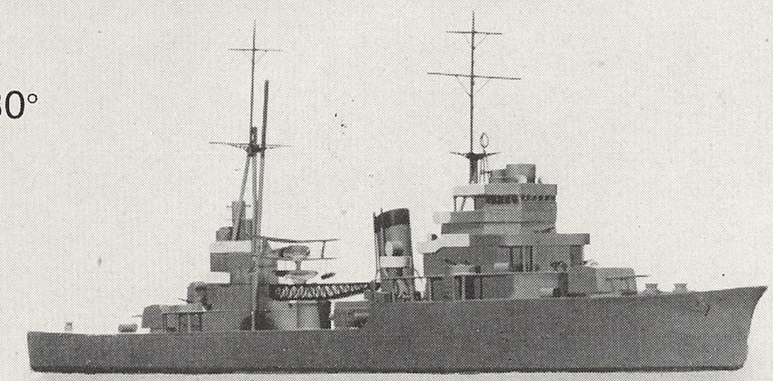
330°



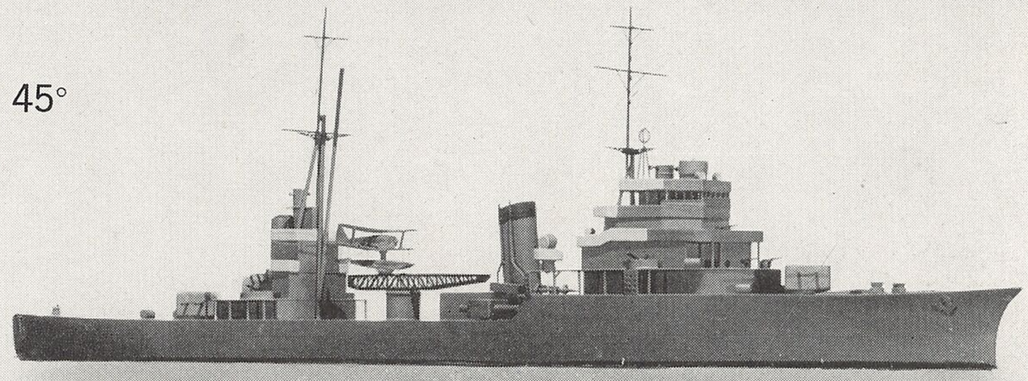
KNOTS	RPM	KNOTS	RPM	KNOTS	RPM	KNOTS	RPM
	400		300		200		100
	375		275		175		75
	350		250		150		50
	325		225		125		25

ONI 41-42

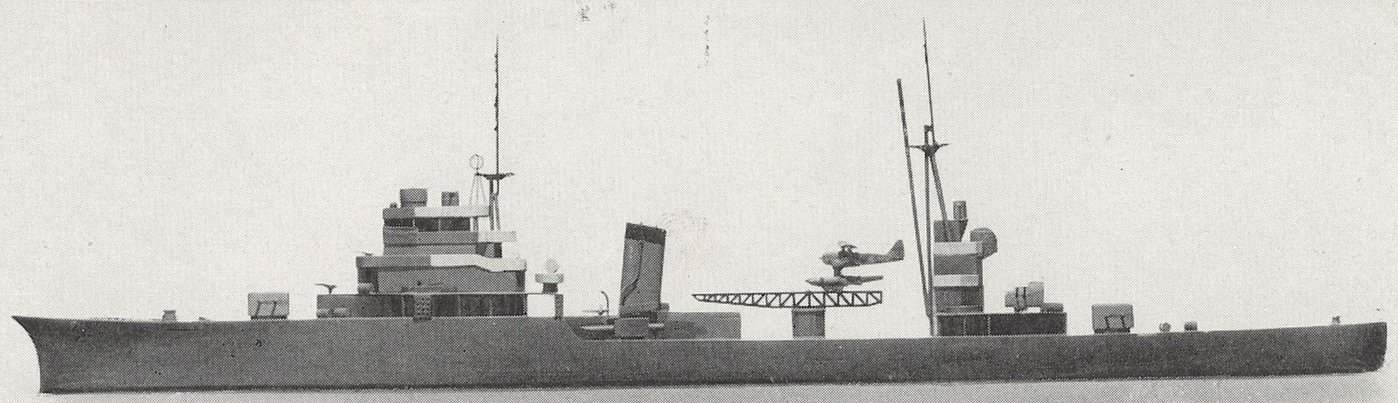
30°



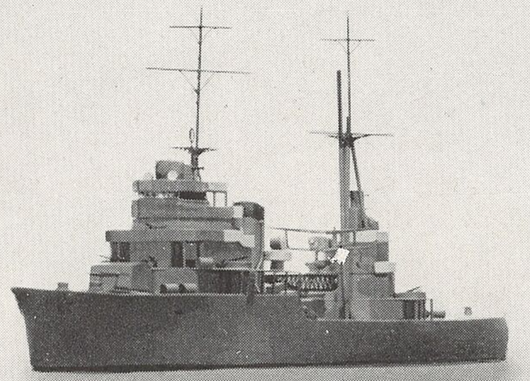
45°



270°



340°



350°

355

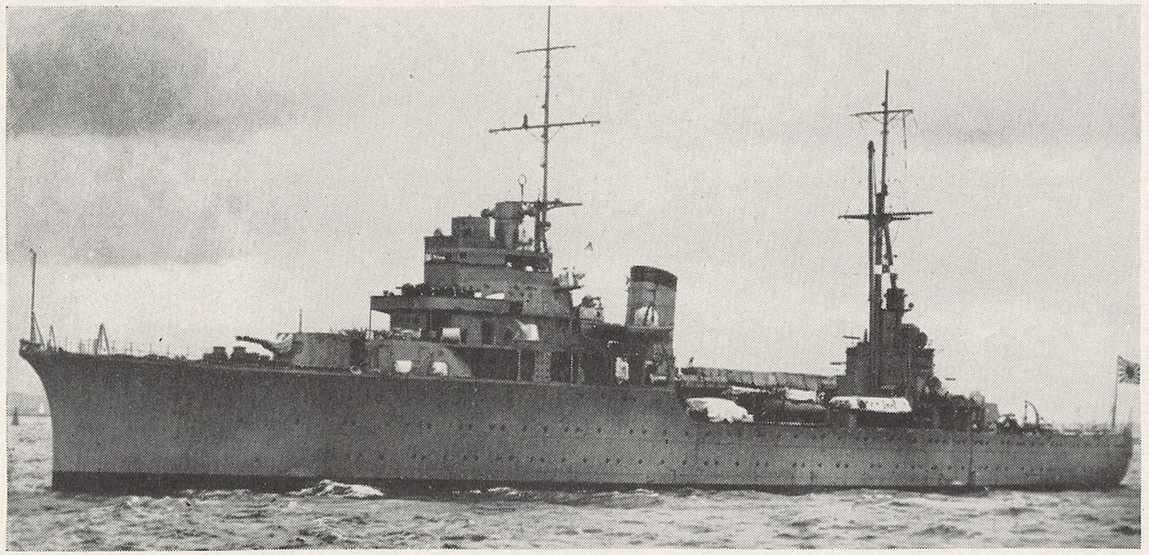
KATORI CLASS—CL 18-20

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL. 1943

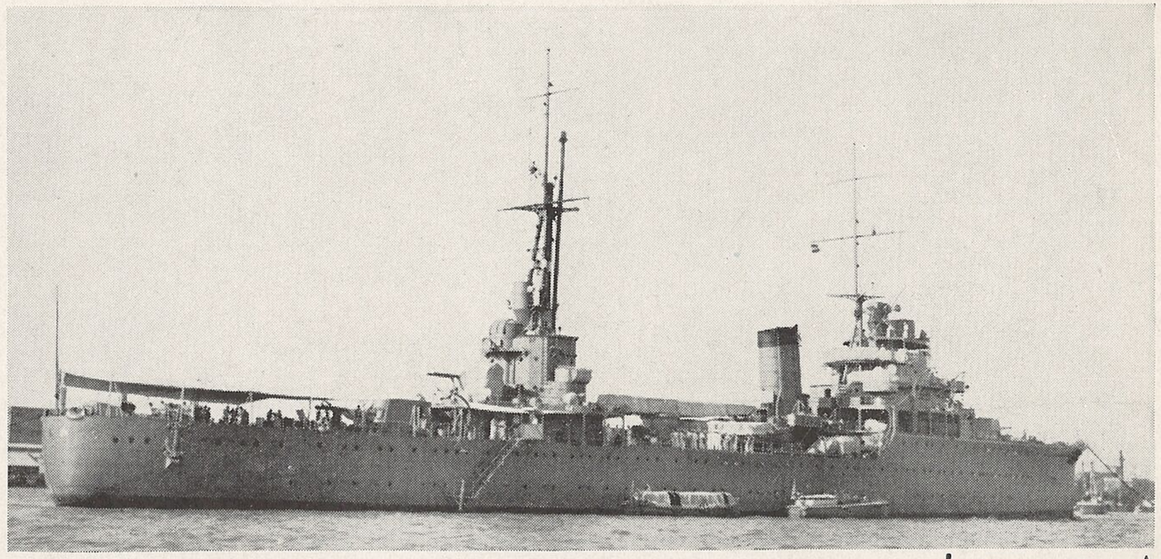
		BEGUN	COMPLETED
KATORI—	CL 18	1938	4/15/40
KASHIMA (KASIMA)—	CL 19	1938	5/15/40
KASHII (KASII)—	CL 20	1938	1941

ONI 41-42

RESTRICTED



↑ JUNE 28, 1940



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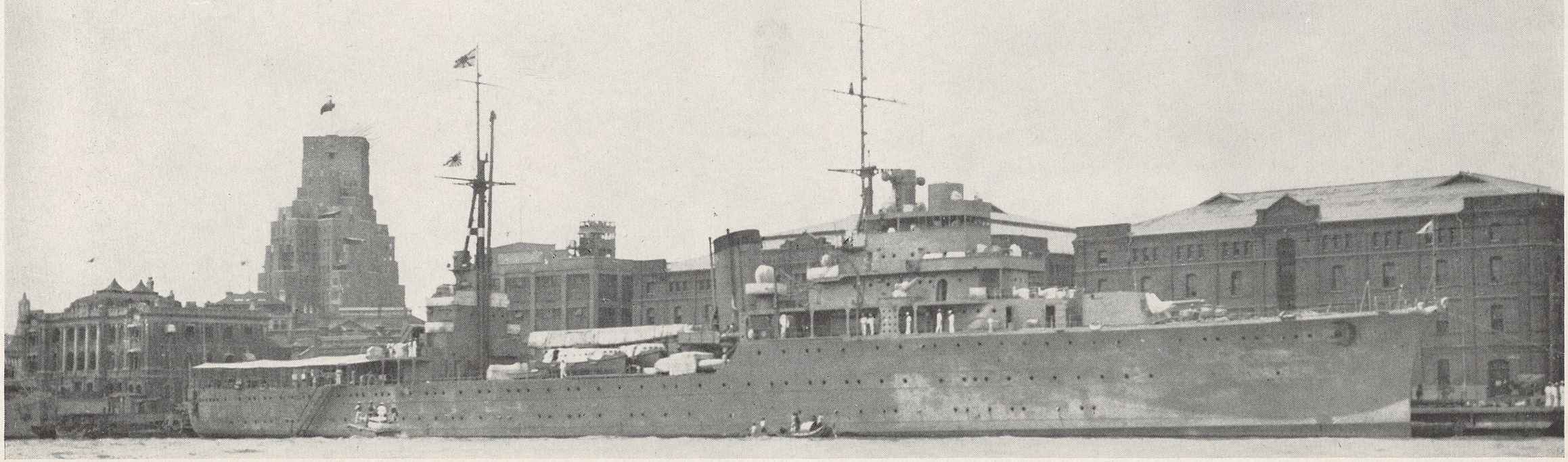


DESTROYERS

ONI 41-42 RESTRICTED

FUBUKI CLASS—SHINONOME GROUP—DD37-44

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—NOVEMBER, 1942

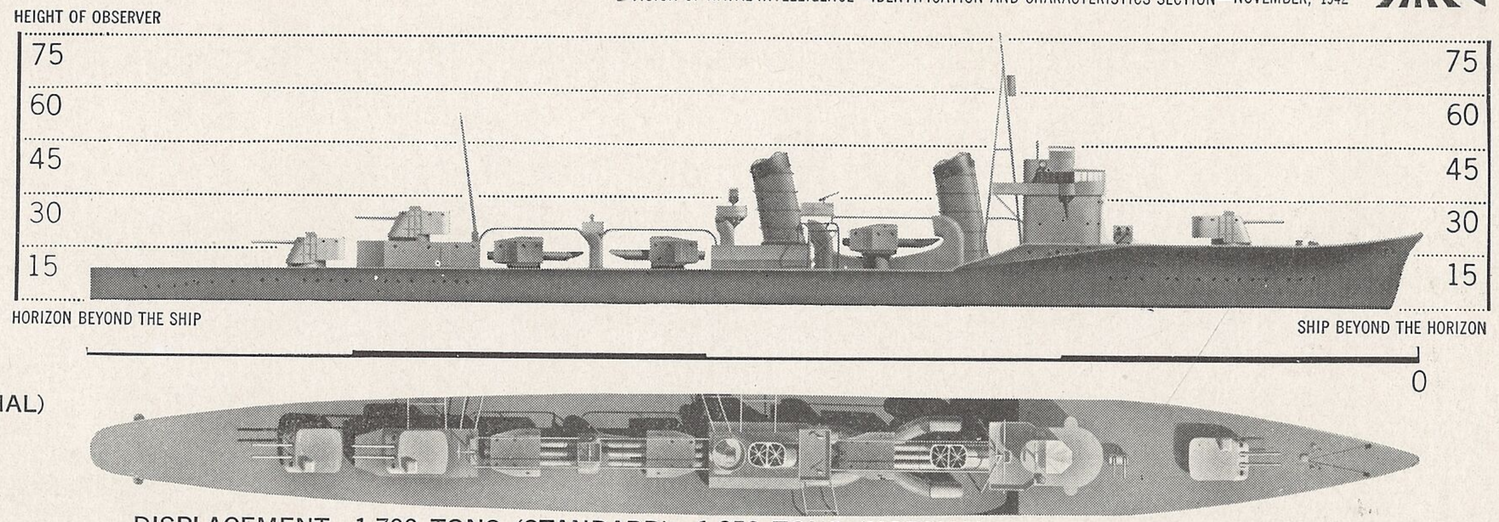
ARMAMENT

	MAX. ELEV.	RANGE
6-5″ (50) TWIN TURRETS	85°	18,000 YD.
2-AAMG		
9-21″ TORPEDO TUBES, TRIPLE MOUNTS		
14 DEPTH CHARGES		
SOME FITTED FOR MINELAYING		

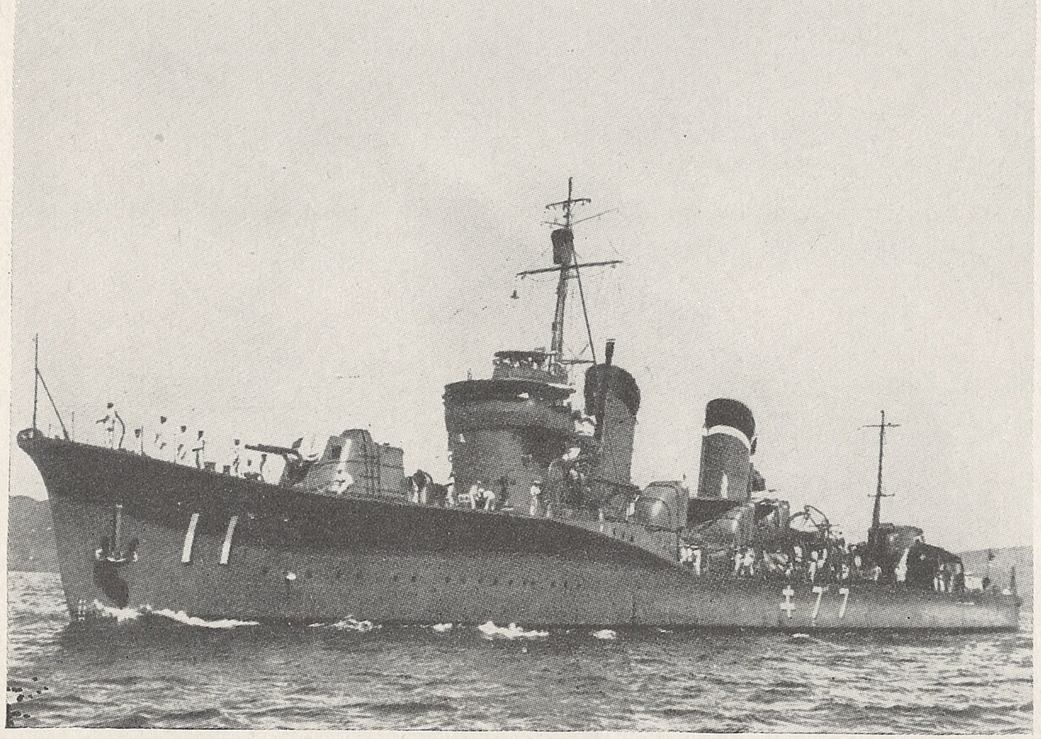
PROPULSION

MACHINERY—	2 PARSONS
BOILERS—	4 KAMPON
FUEL—	OIL, 500 TONS
DESIGNED HP—	40,000
DESIGNED SPEED—	34 KNOTS
ENDURANCE—	1100 @ 34 KNOTS
	4700 @ 15 KNOTS

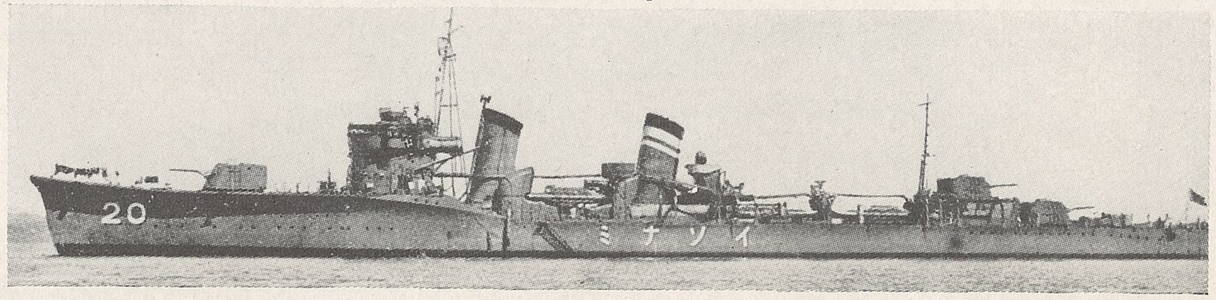
LENGTH—379′6″ OA
BEAM— 33′9″
DRAFT— 9′9″ (NORMAL)



DISPLACEMENT—1,700 TONS (STANDARD)—1,850 TONS (NORMAL)



← FUBUKI MURAKUMO ↑ ISONAMI 1934 ↓



FUBUKI CLASS—SHINONOME GROUP—DD 37-44

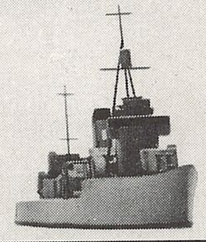
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—DECEMBER, 1942

COMPLETED

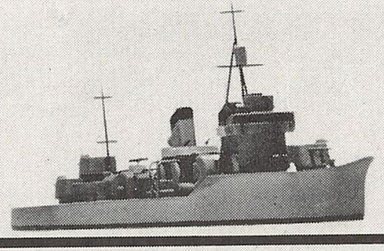
FUBUKI	—DD 37 — 1928 —	SHIRAKUMO	—DD 41
SHINONOME	—DD 38 — 1928 —	ISONAMI	—DD 42
SHIRAYUKI	—DD 39 — 1928 —	HATSUYUKI	—DD 43
USUGUMO	—DD 40 — 1928 —	MURAKUMO	—DD 44

0°

10°



20°



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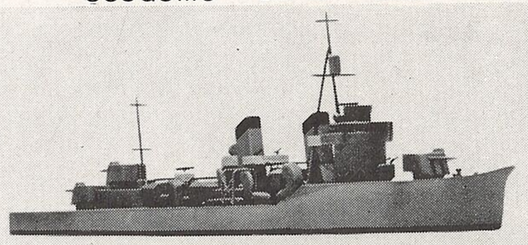

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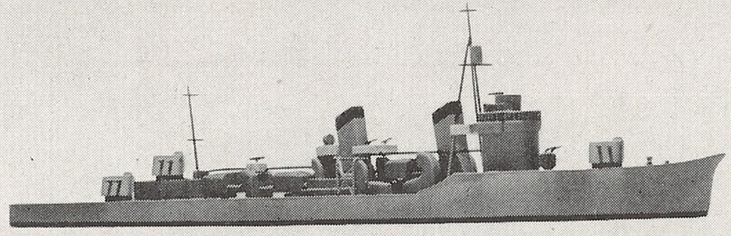

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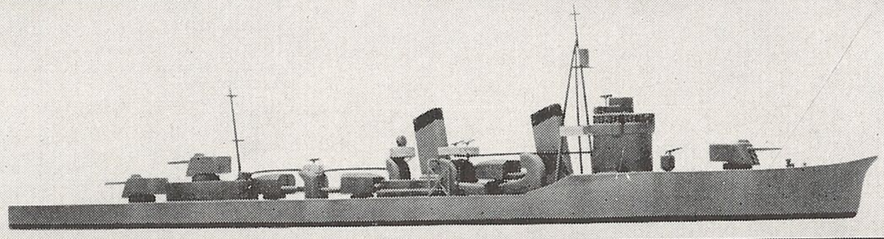

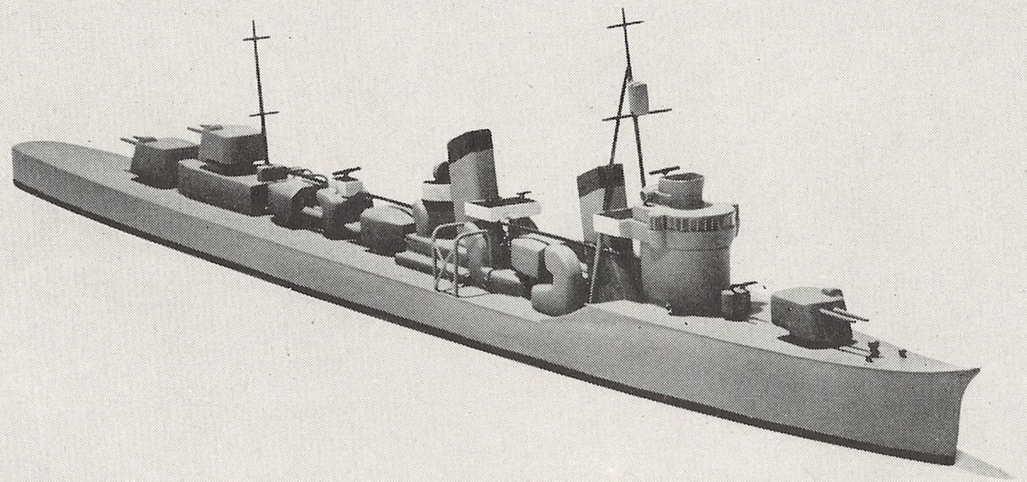

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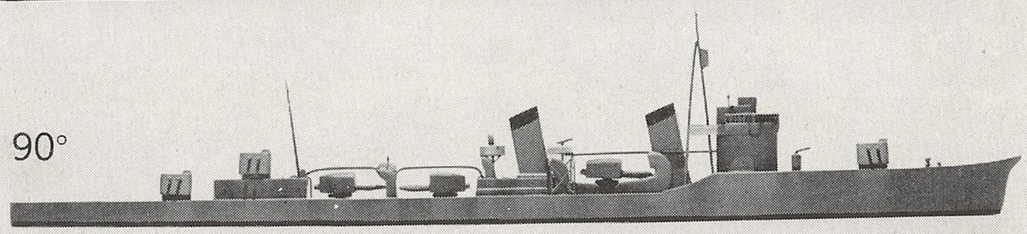

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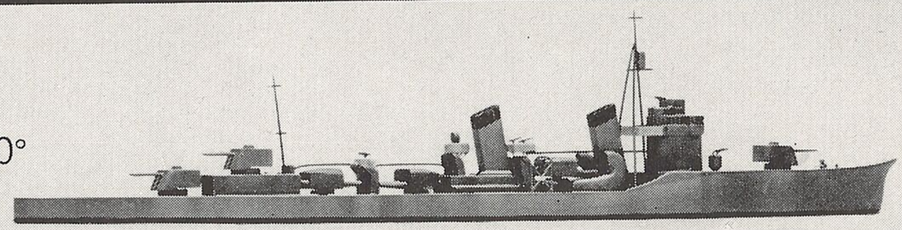

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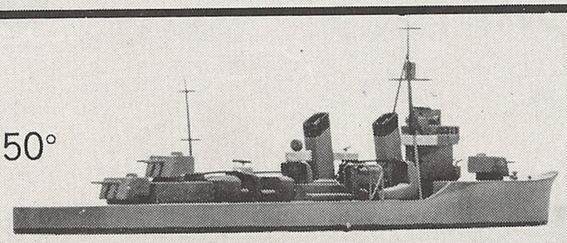

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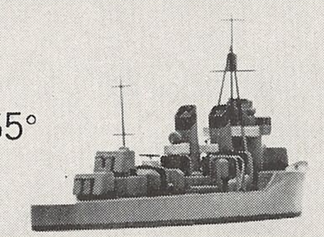
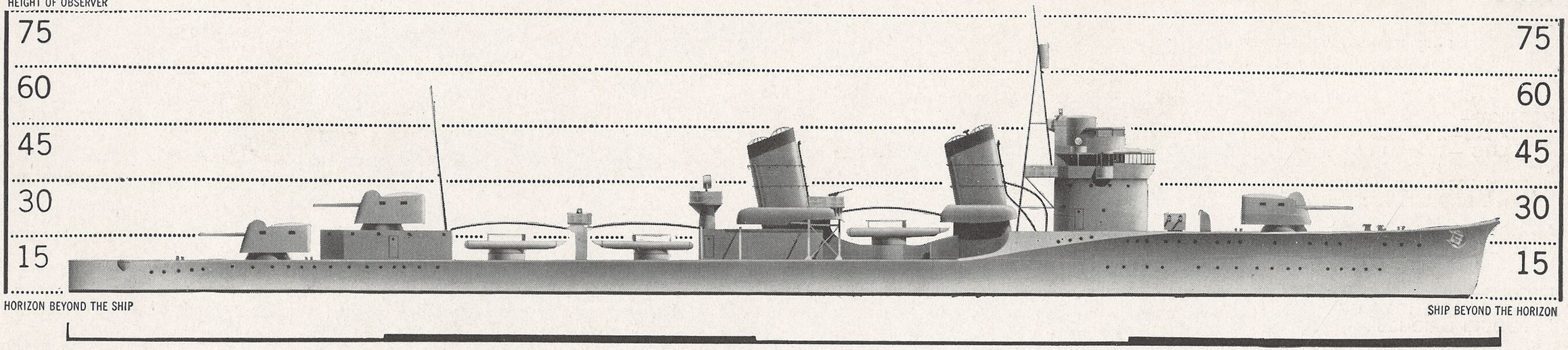


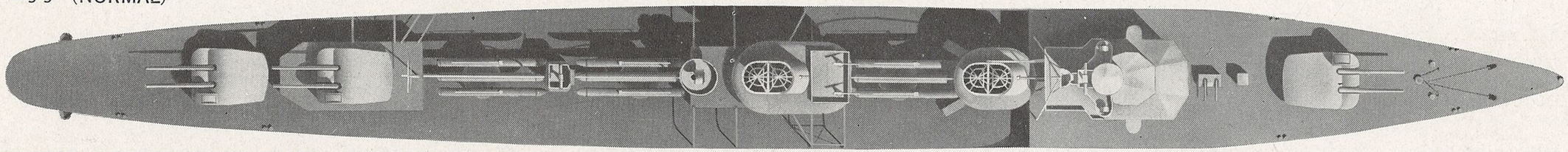
ONI 41-42 RESTRICTED

FUBUKI CLASS—AMAGIRI GROUP—DD 45-55

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—DECEMBER, 1942



LENGTH—379′6″ OA
BEAM —33′9″
DRAFT —9′9″ (NORMAL)



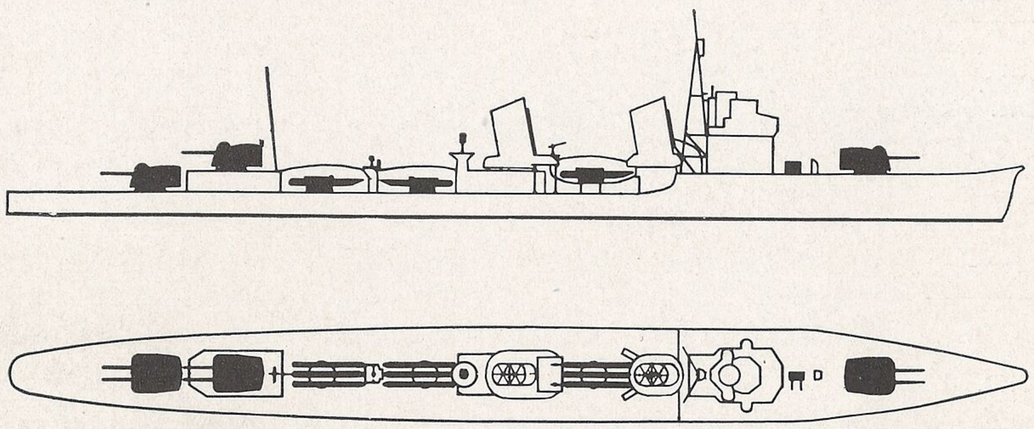
DISPLACEMENT—1,700 TONS (STANDARD)—1,850 TONS (NORMAL)

ARMAMENT

	MAX. ELEV.	RANGE
6–5″ (50)	85°	18,000 YD.
2–AAMG		
9–21″ TORPEDO TUBES, TRIPLE MOUNTS		
14 DEPTH CHARGES		

PROPULSION

MACHINERY—	2 PARSONS
BOILERS—	4 KAMPON
FUEL—	OIL, 500 TONS
DESIGNED HP—	40,000
DESIGNED SPEED—	34 KNOTS
ENDURANCE—	1,100 @ 34 KNOTS
	4,700 @ 15 KNOTS



FUBUKI CLASS

SHINONOME GROUP—DD 37-44

AMAGIRI GROUP—DD 45-55

HIBIKI GROUP—DD 56-59

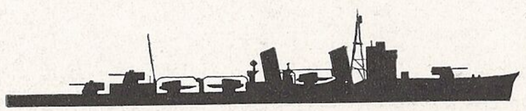
FUBUKI—
DD 45-55

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION
AND CHARACTERISTICS SECTION —DECEMBER, 1942

PROFILE—
STACKS—2 RAKED COMBINED
MASTS —TRIPOD FORE
STICK MAIN
UNDULATING DECK LINE
HULL BROKEN FORWARD

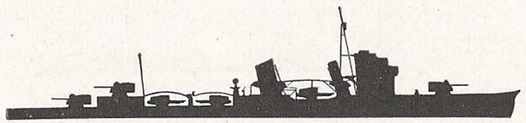
AERIAL—
TURRETS—TWIN SINGLE FOR'D
TWIN SUPERIMPOSED AFT

END-ON—
NOTE VARIATIONS OF
FUBUKI BRIDGES



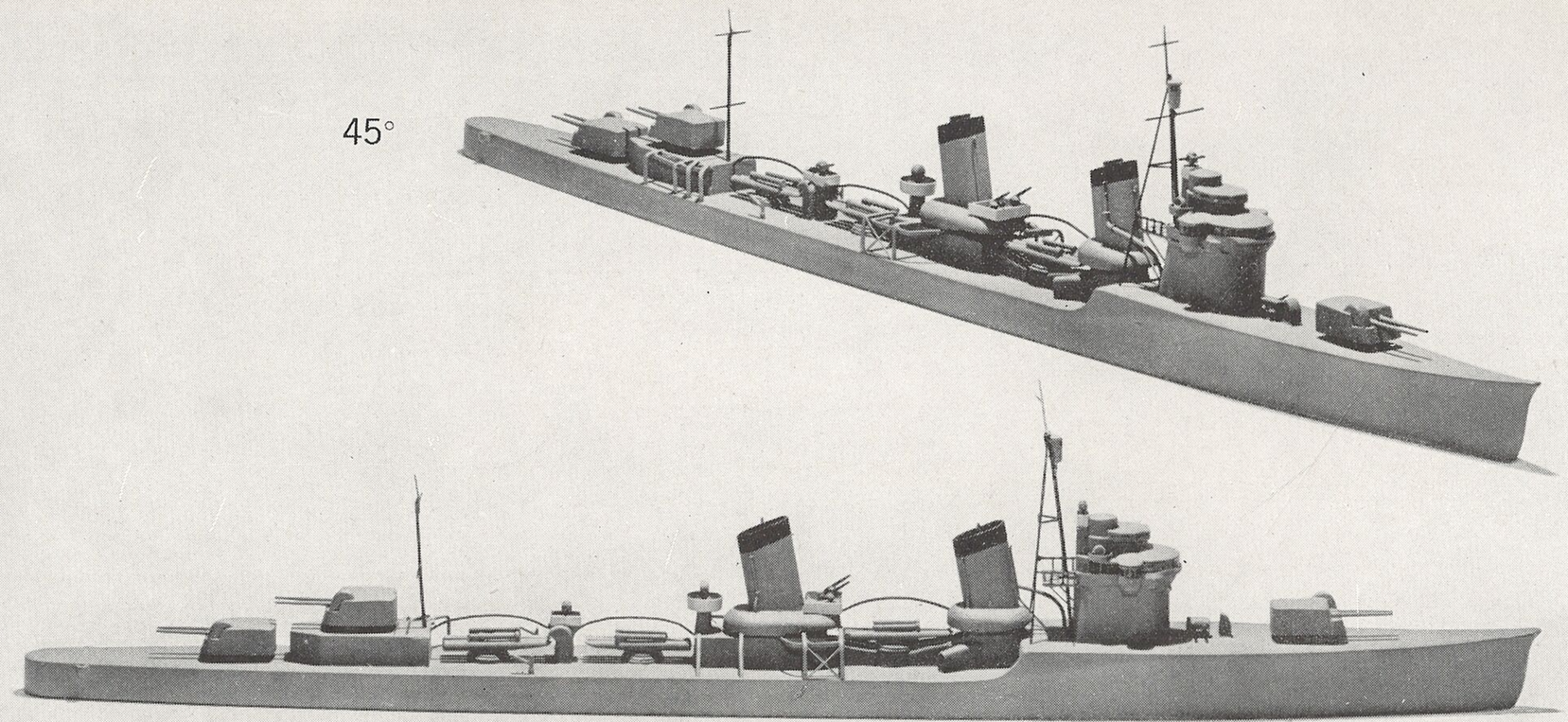
SHINONOME GROUP–
FREESTANDING CURVED VENTILATORS.
TORPEDO CREW SHIELDS.

AMIGIRI GROUP–
COLLAR VENTILATORS ON STACKS.
NO TORPEDO CREW PROTECTION.



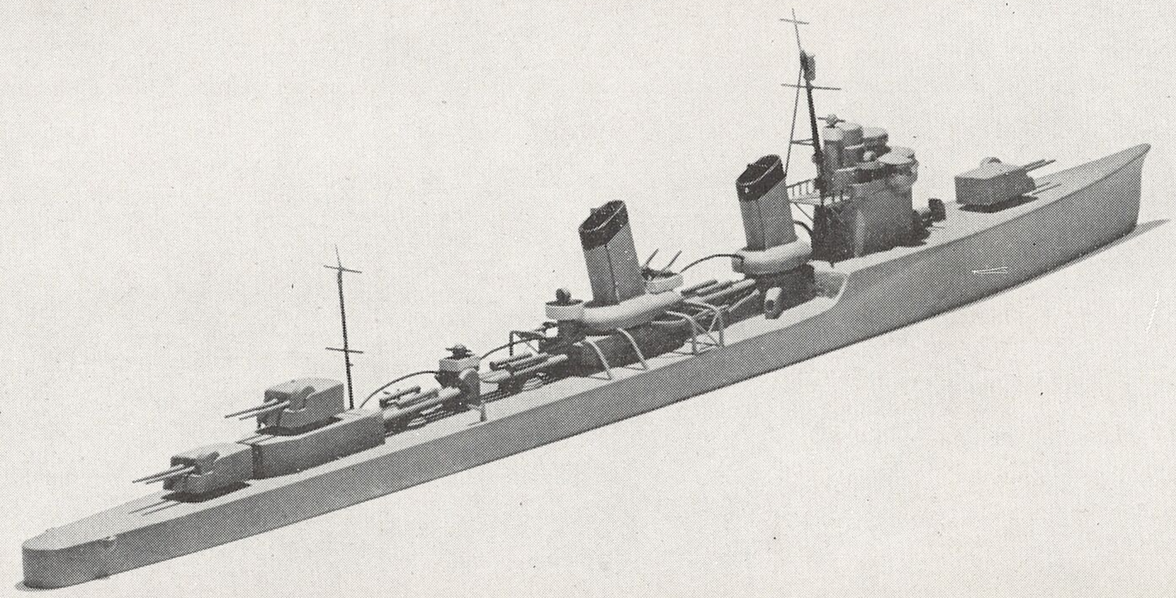
HIBIKI GROUP–
THIN FORWARD STACK.
COLLAR VENTILATORS ON STACKS.
TORPEDO CREW SHIELDS.

45°



90°

135°



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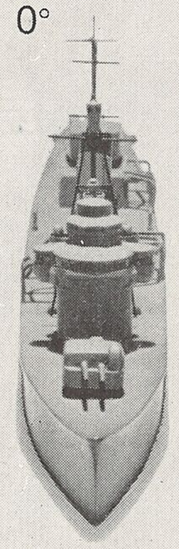

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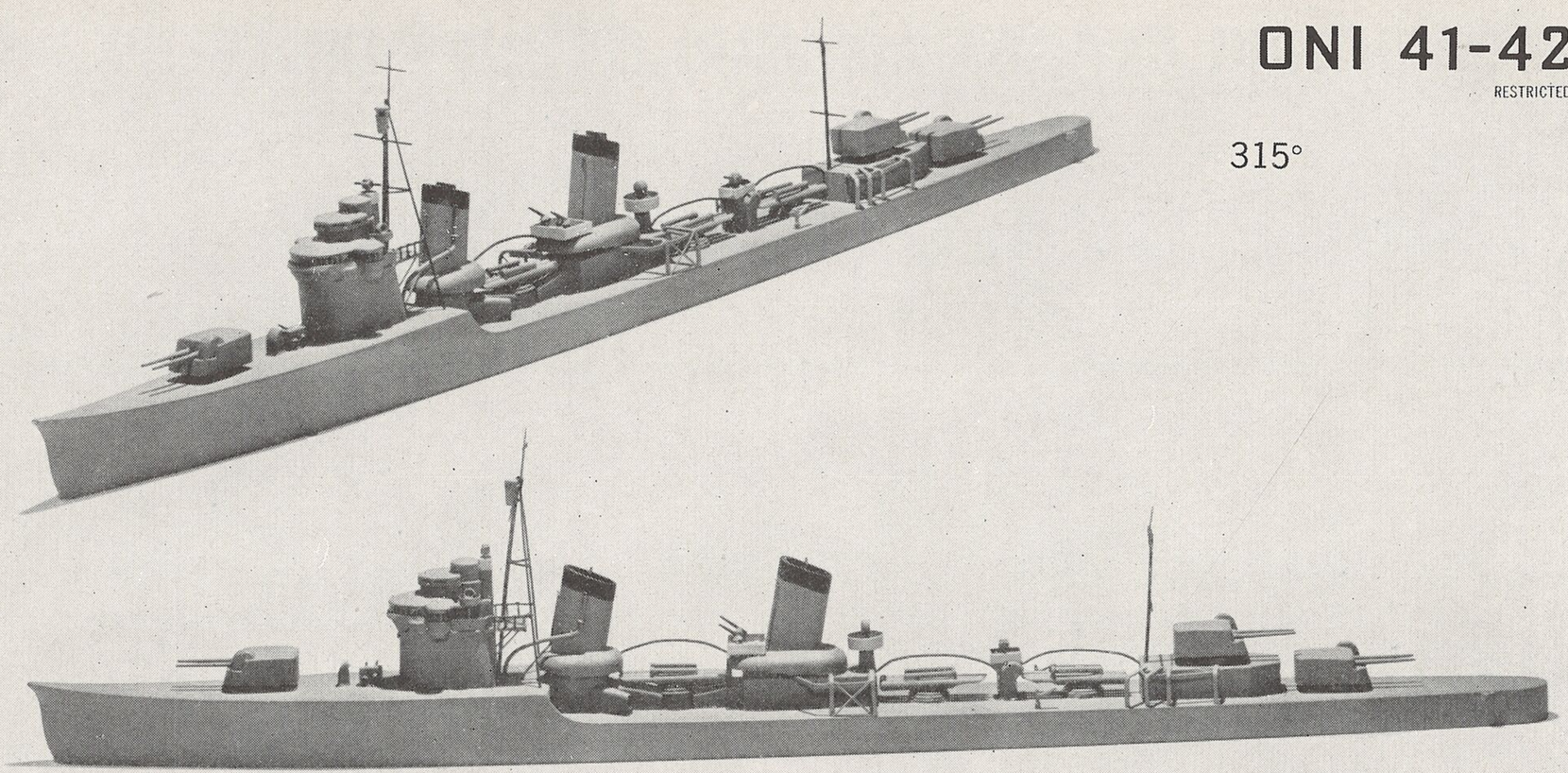
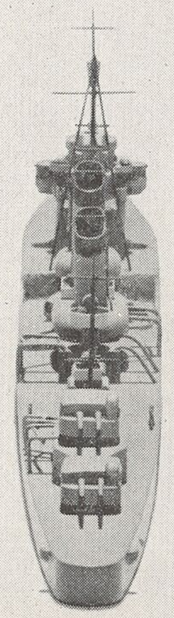


180°



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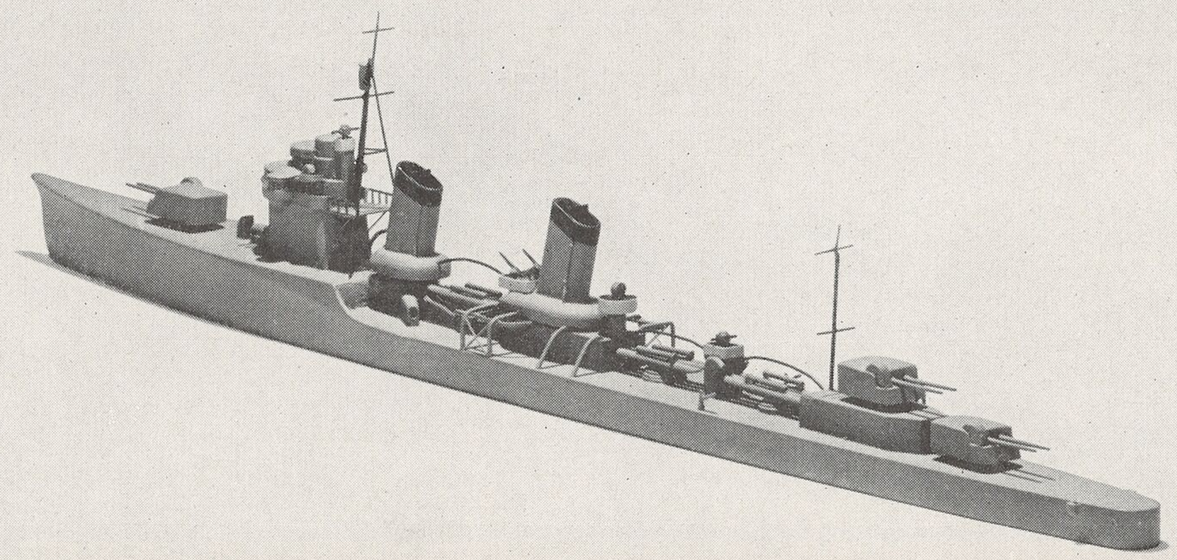


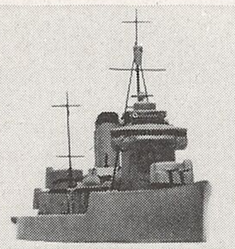
225°

FUBUKI CLASS—AMAGIRI GROUP—DD 45-55

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—NOVEMBER, 1942

0°

10°



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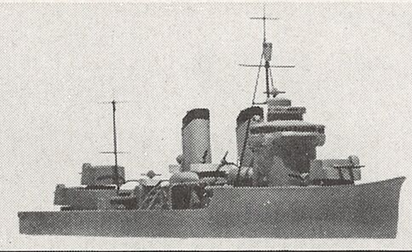

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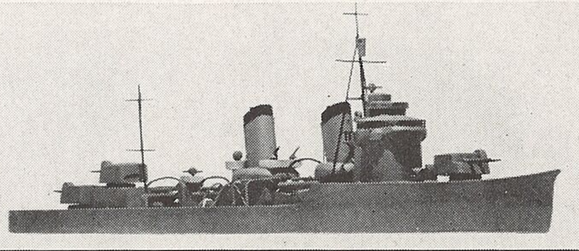

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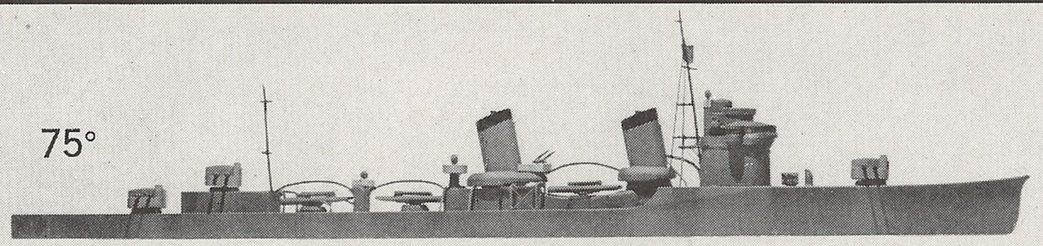

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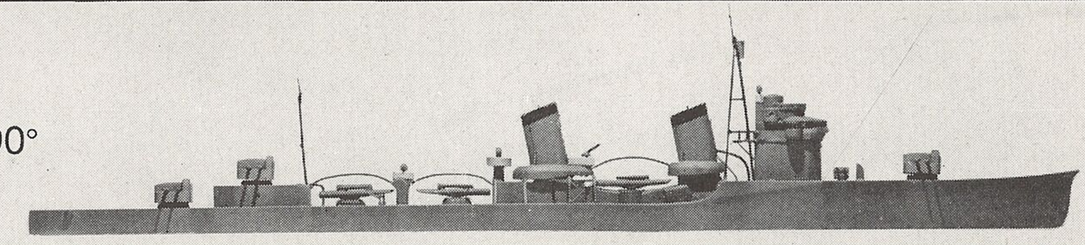

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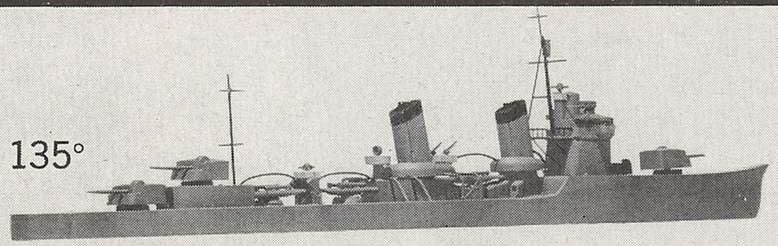

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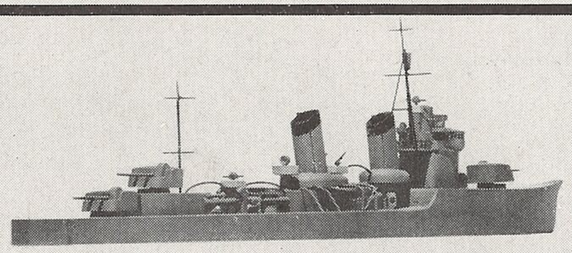

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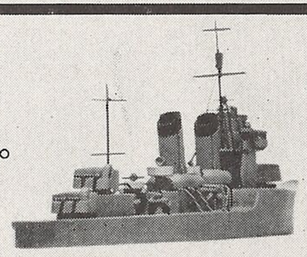

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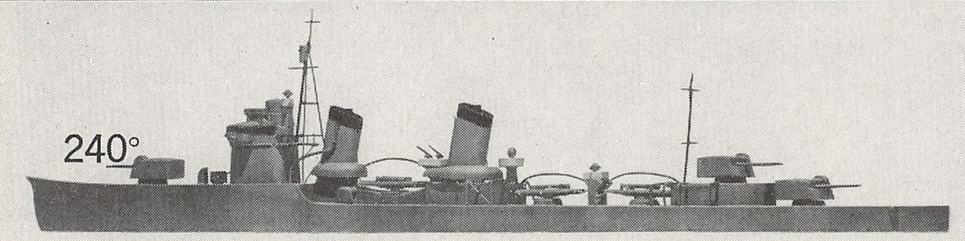
240°



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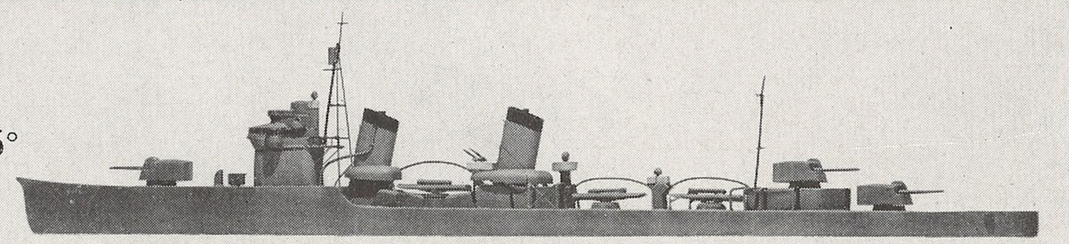

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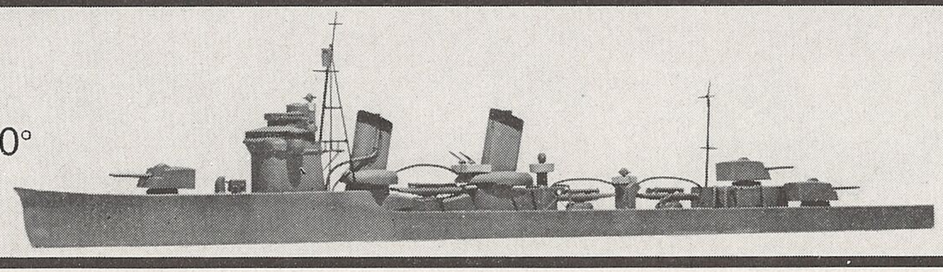

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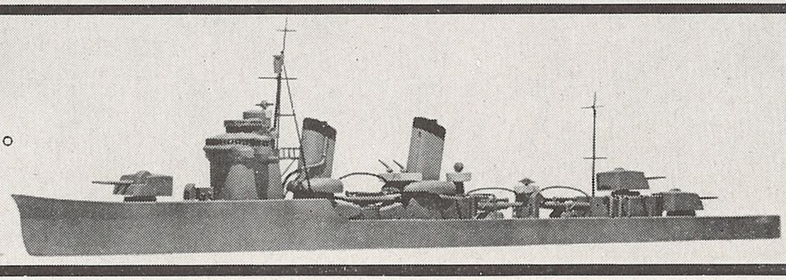


ONI 41-42

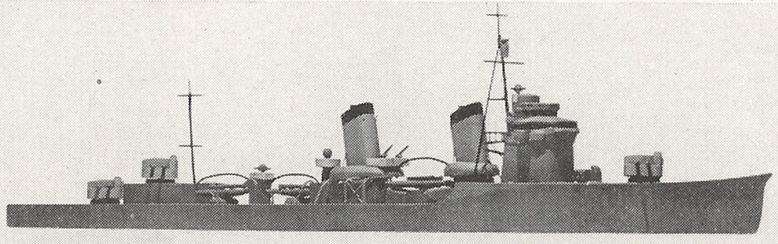
KNOTS	RPM
	400
	375
	350
	325

KNOTS	RPM
	300
	275
	250
	225

KNOTS	RPM
	200
	175
	150
	125

KNOTS	RPM
	100
	75
	50
	25

45°



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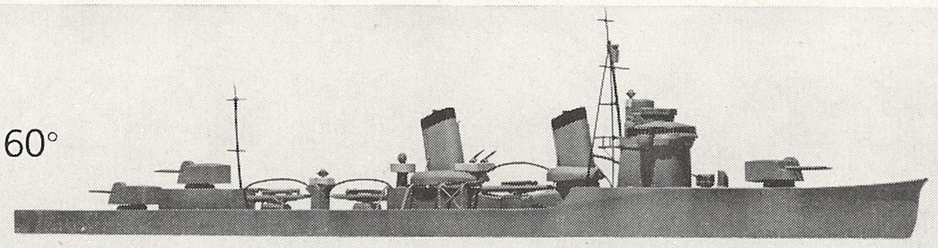

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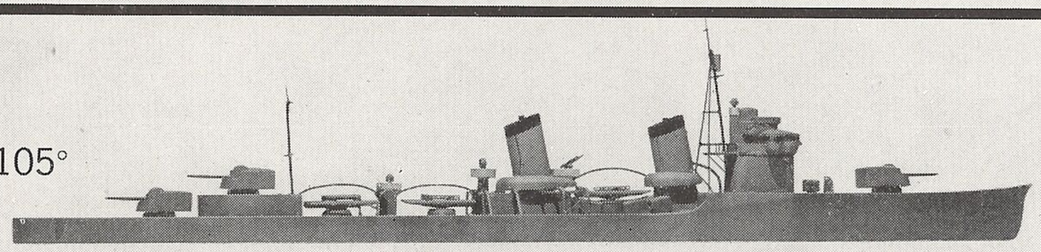

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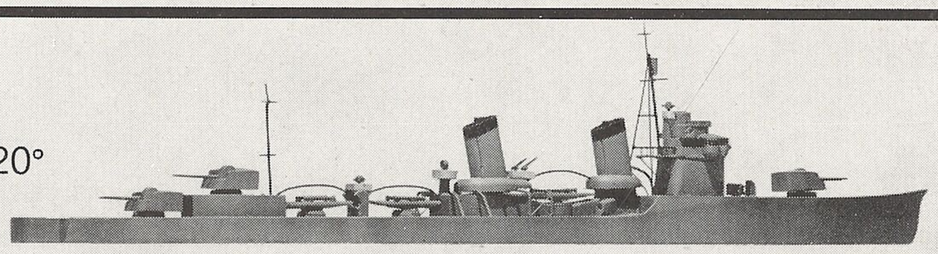

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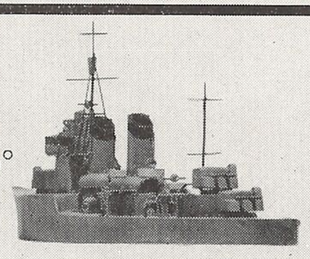

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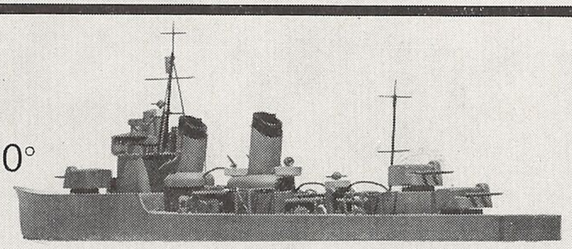

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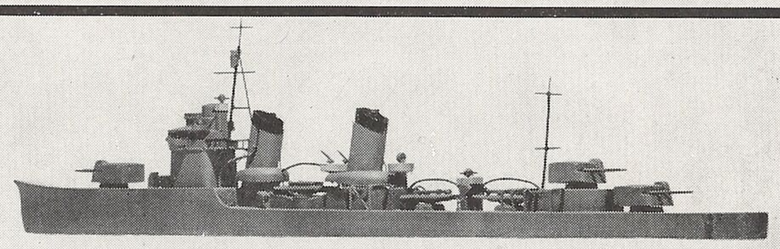

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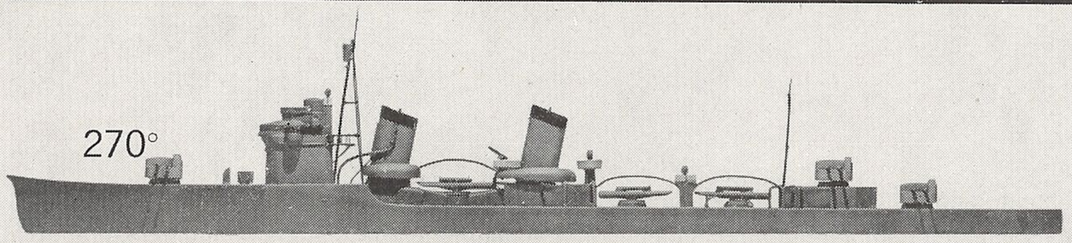

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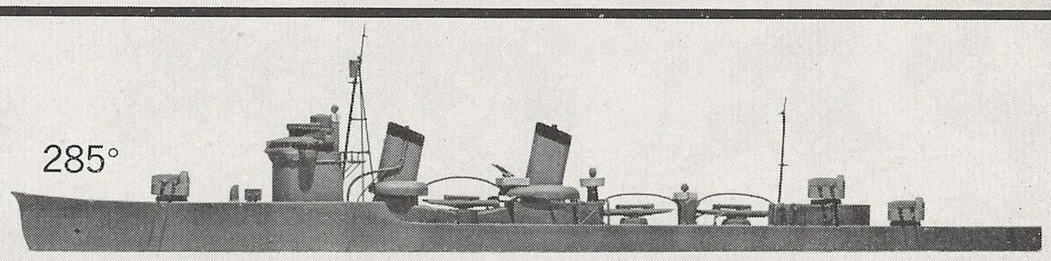

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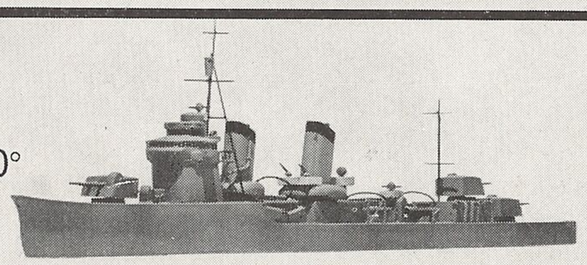

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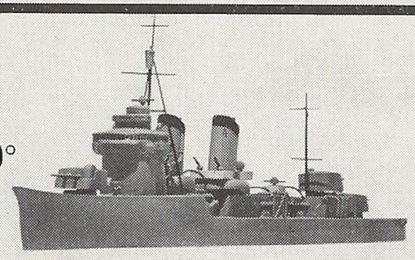

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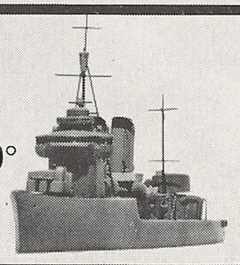
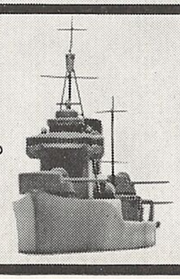


355°

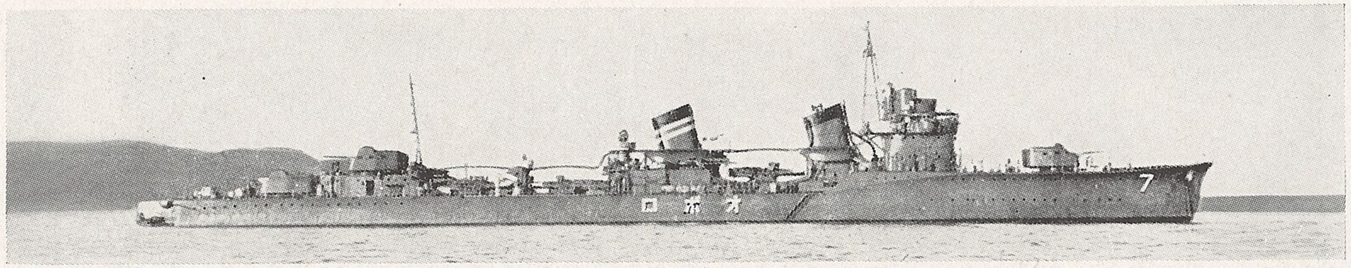


FUBUKI CLASS—AMAGIRI GROUP—DD 45-55

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —DECEMBER, 1942

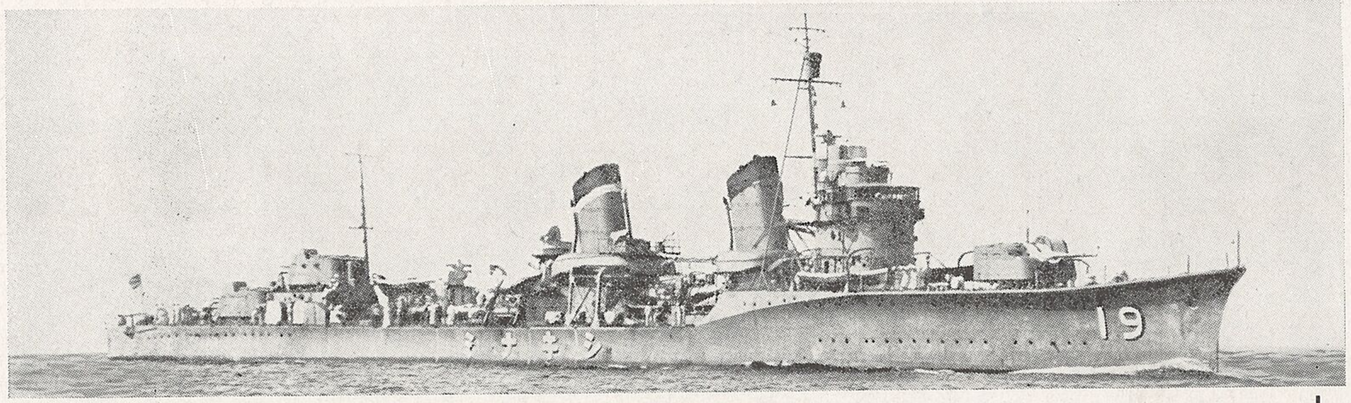
ONI 41-42

RESTRICTED

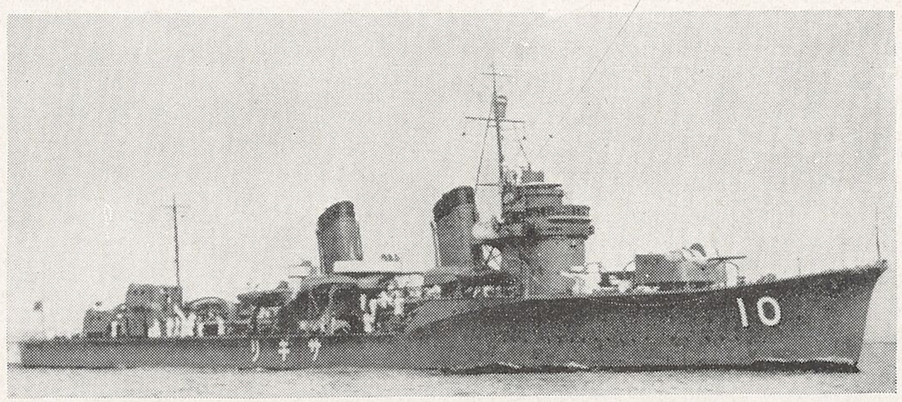


OBORO

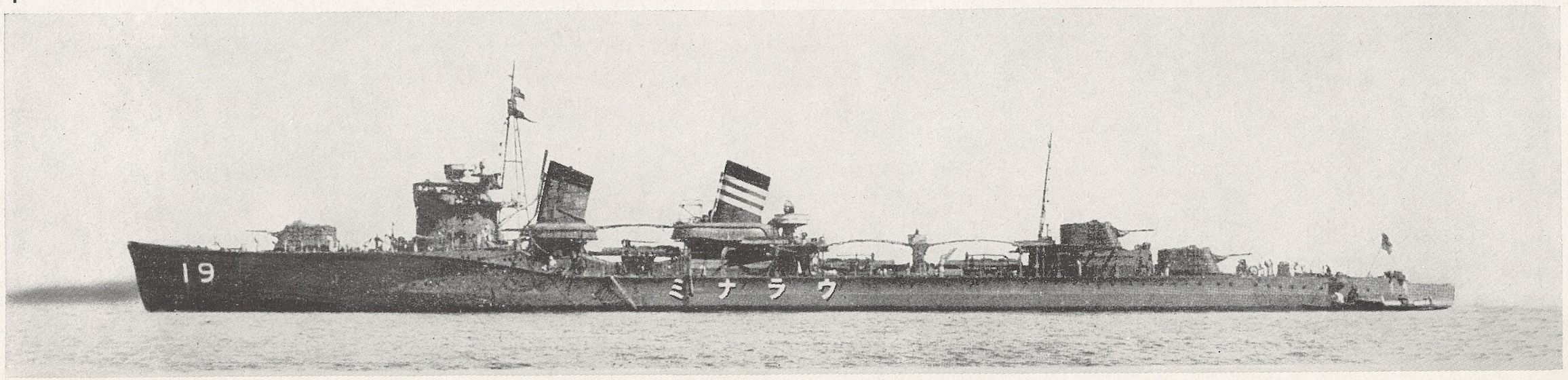
	BEGUN	COMPLETED	
DD 45—AMAGIRI	11/28/28	11/10/30	
DD 46—SHIKINAMI	7/6/28	12/24/29	(SIKINAMI)
DD 47—AYANAMI	1/20/28	4/30/30	
DD 48—ASAGIRI	12/12/28	6/30/30	
DD 49—URANAMI	4/28/27	6/30/29	
DD 50—YUGURI	4/1/29	12/3/30	
DD 52—USHIO	12/24/29	11/14/31	(USIO)
DD 53—OBORO	11/29/29	10/31/31	
DD 54—AKEBONO	10/25/29	7/31/31	
DD 55—SAZANAMI	2/21/30	5/19/32	



SHIKINAMI



URANAMI



ONI 41-42 RESTRICTED

FUBUKI CLASS—HIBIKI GROUP—DD 56-59

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—DECEMBER, 1942

ARMAMENT

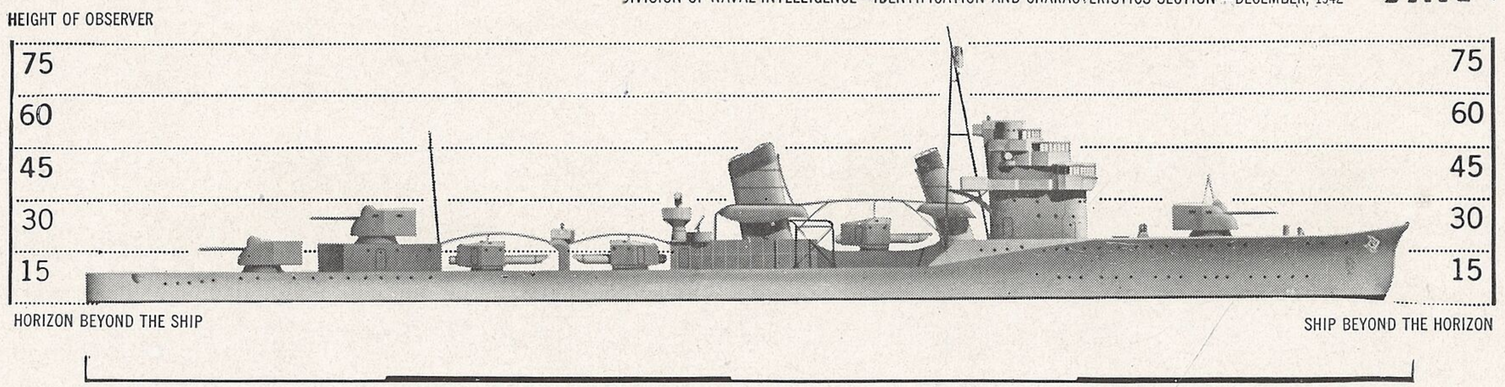
	MAX. ELEV.	RANGE
6–5″ (50) TWIN TURRETS	85°	18,000 YD.
2–AAMG		
9–21″ TORPEDO TUBES, TRIPLE MOUNTS		
14 DEPTH CHARGES		

PROTECTION

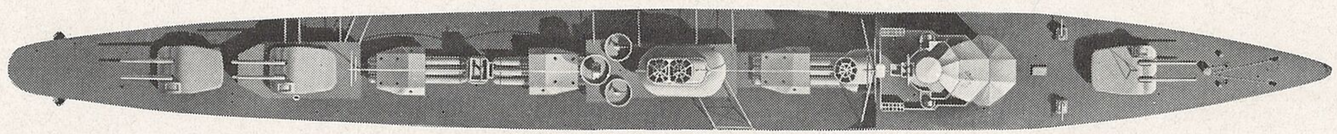
GUN HOUSES, SPLINTER SHIELDS,
& TORPEDO-CREW SHIELDS

PROPULSION

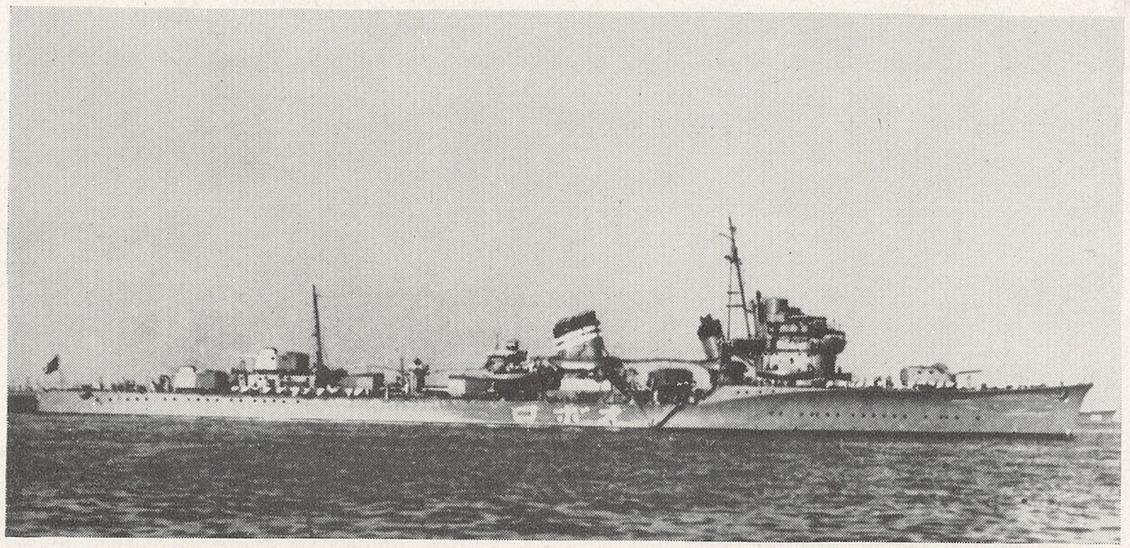
MACHINERY— 2 PARSONS
BOILERS— 4 KAMPON
FUEL— OIL, 500 TONS
DESIGNED HP— 40,000
DESIGNED SPEED—34 KNOTS
ENDURANCE— 1100 @ 34 KNOTS
4700 @ 15 KNOTS

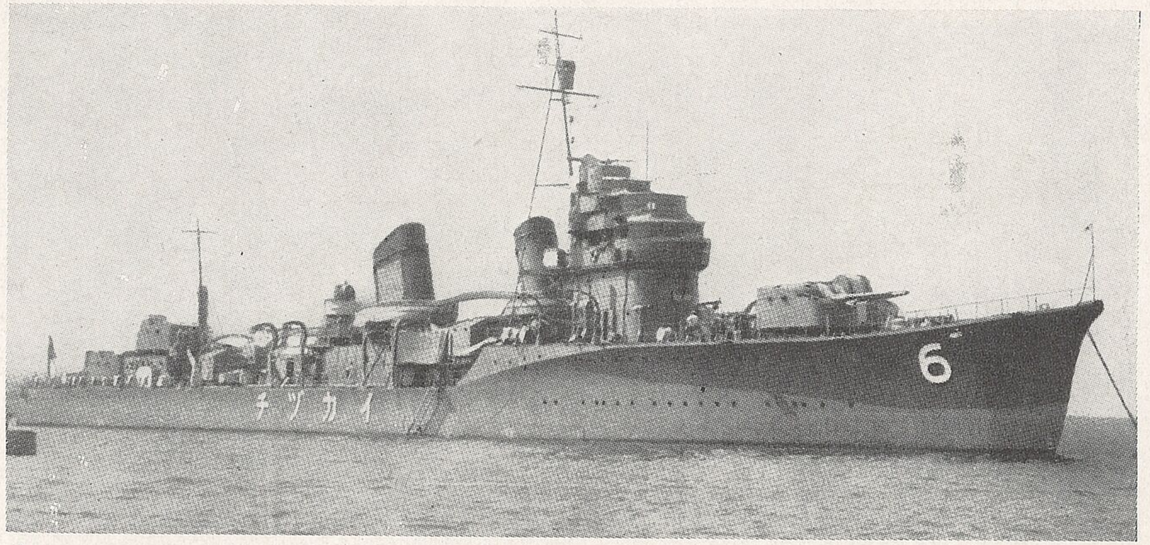


LENGTH—379′6″ OA
BEAM— 33′9″
DRAFT— 9′9″ (NORMAL)



DISPLACEMENT—1,700 TONS (STANDARD)—1,850 TONS (NORMAL)





↑ IKAZUCHI

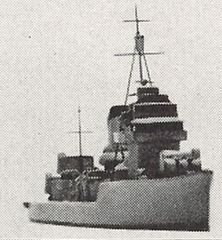
FUBUKI CLASS—HIBIKI GROUP—DD 56-59

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —DECEMBER, 1942

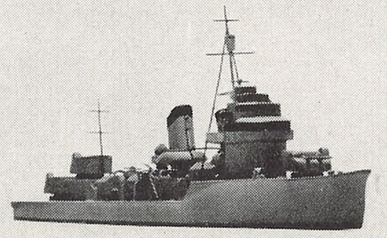
	BEGUN	COMPLETED	ALSO SPELLED
AKATSUKI-DD56	2/17/30	11/30/32	AKATUKI
IKAZUCHI -DD57	3/ 7/30	8/15/32	IKADUTI
INAZUMA -DD58	3/ 7/30	11/15/32	INADUMA
HIBIKI -DD59	2/21/30	3/31/32	

0°

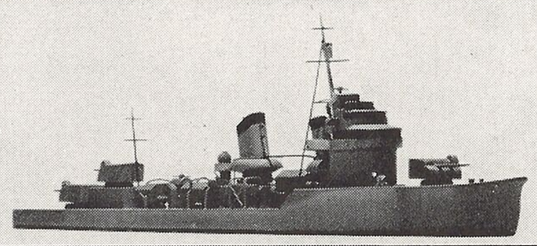
10°



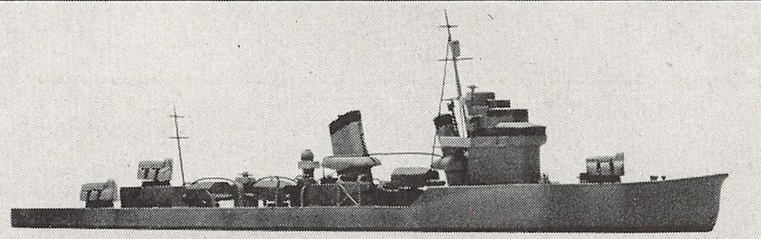
20°



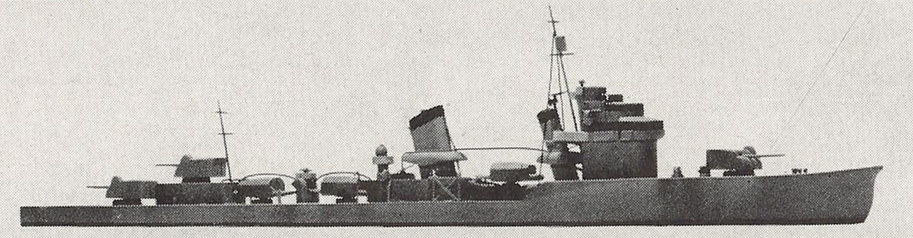
30°

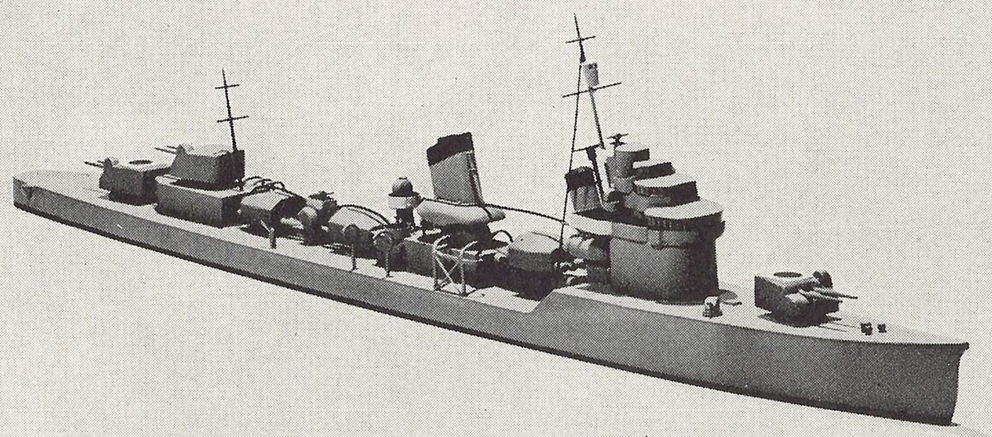


45°

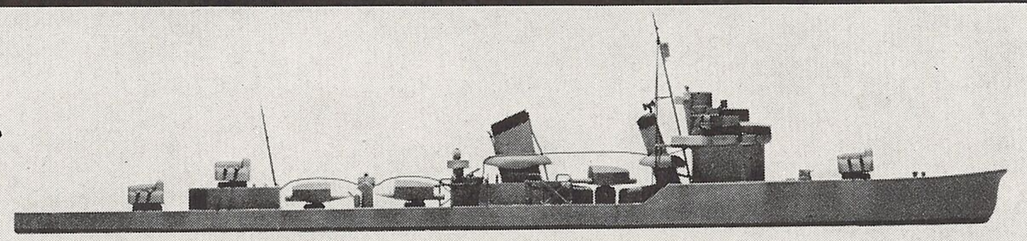


60°

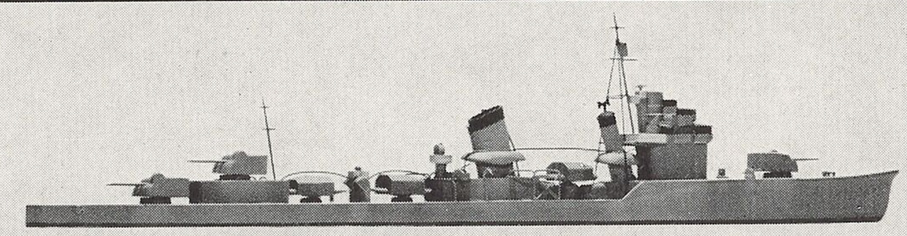




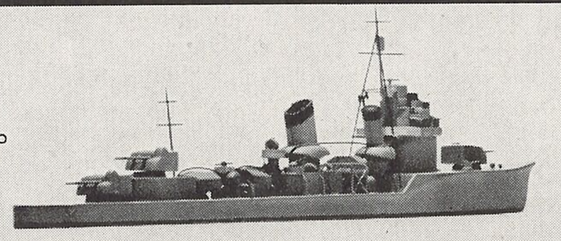
90°

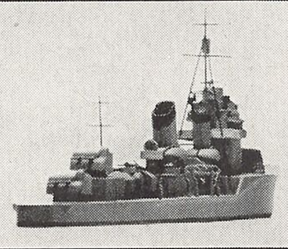


120°



150°

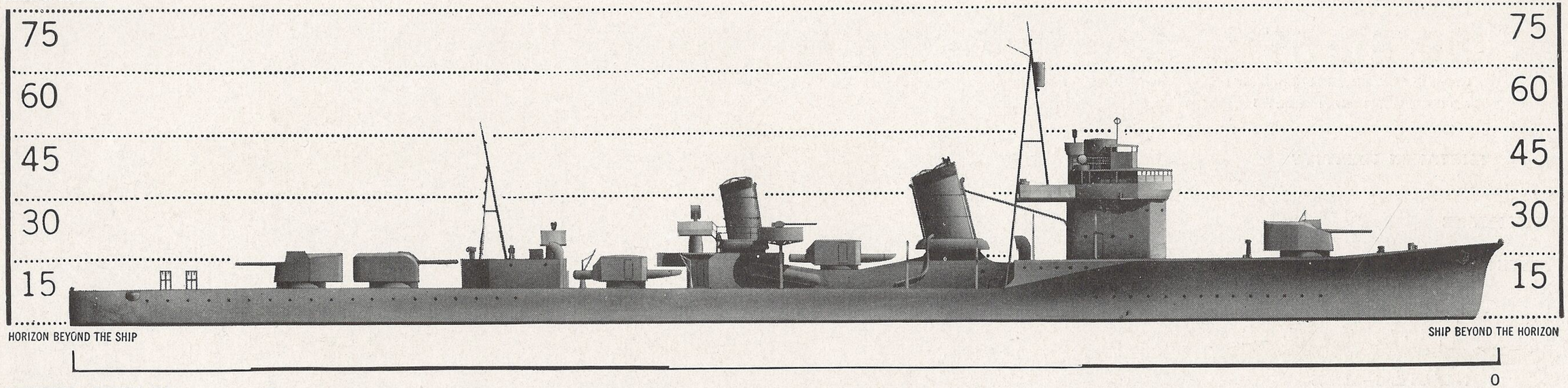




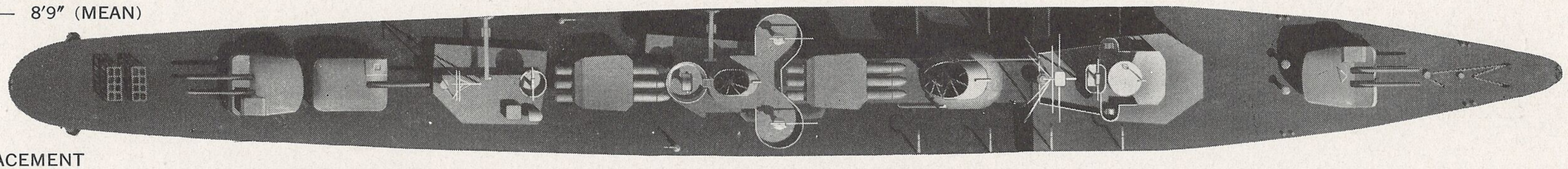
ONI 41-42 RESTRICTED

HATSUHARU CLASS—DD 60-65

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943



LENGTH—344′0″ OA
BEAM— 32′6″
DRAFT— 8′9″ (MEAN)



DISPLACEMENT
1368 (STANDARD)

ARMAMENT

	MAX. ELEV.	RANGE
5–5″ (50)	45°	19,000 YDS.

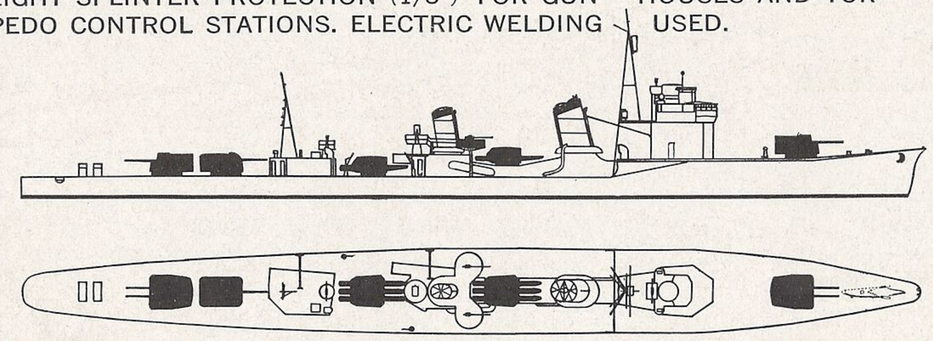
2 AAMG
6-21″ TORPEDO TUBES, TRIPLE MOUNTS. —14 DEPTH CHARGES
ORIGINALLY FITTED WITH SUPERFIRING GUNHOUSES FORWARD AND ONE AFT. TO IMPROVE STABILITY THE HIGH SINGLE MOUNT FORWARD WAS MOVED AFT, THE BRIDGE CUT DOWN, AND TORPEDO BATTERY REDUCED.

PROPULSION

MACHINERY— GEARED TURBINES
BOILERS— 3 KAMPON
FUEL— OIL, 500 TONS
DES HP— 37,000 DES SPEED—34 KNOTS
ENDURANCE— 1020 @ 34 KNOTS —6000 @ 15 KNOTS
PROPELLERS— 2

PROTECTION

LIGHT SPLINTER PROTECTION (1/8″) FOR GUN HOUSES AND TORPEDO CONTROL STATIONS. ELECTRIC WELDING USED.



6 HATSUHARU CLASS

HATSUHARU— DD 60
HATSUSHIMO— DD 61
NENOHI— DD 62
WAKABA— DD 63
ARIAKE— DD 64
YUGURE— DD 65

HATSUHARU CLASS DD 60-65

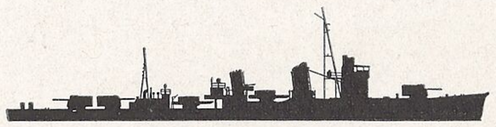
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

MISTAKEN IDENTITY

FIRST LINE DESTROYERS

AFT TURRETS FLUSH

HATSUHARU CLASS—DD 60-65



SHIGURE CLASS—DD 66-75

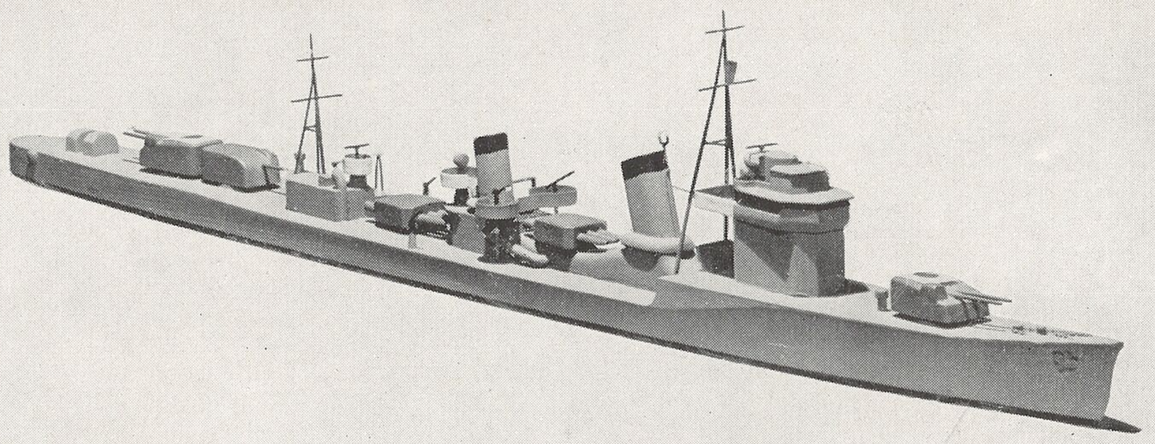
AFT TURRETS SUPERIMPOSED

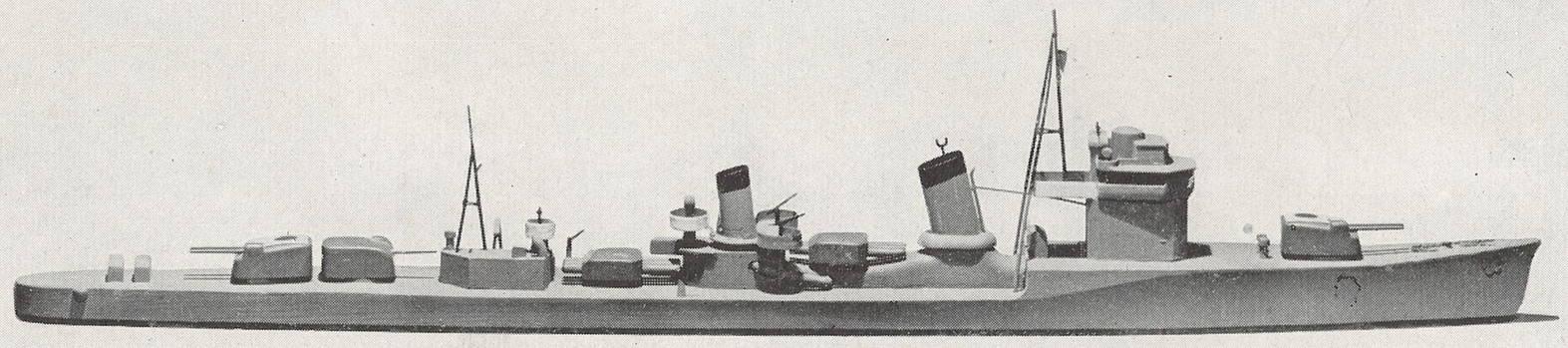
ASASHIO CLASS—DD 76-85

FUBUKI CLASS—DD 37-59

AERIAL VIEWS

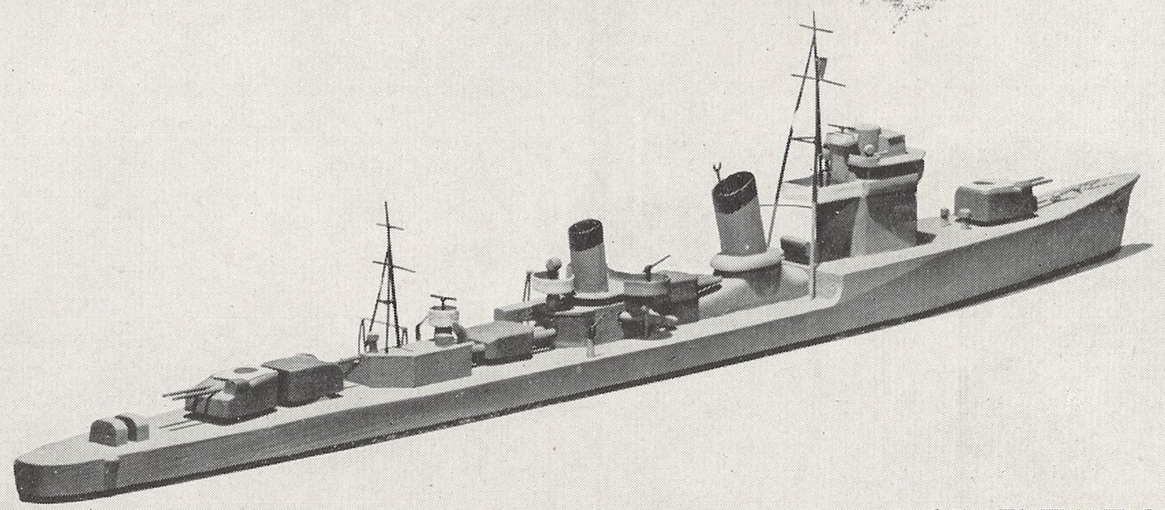
45°





90°

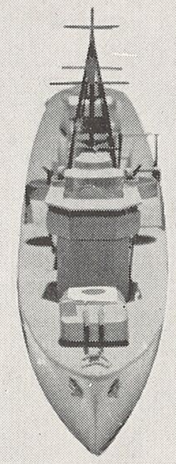
135°



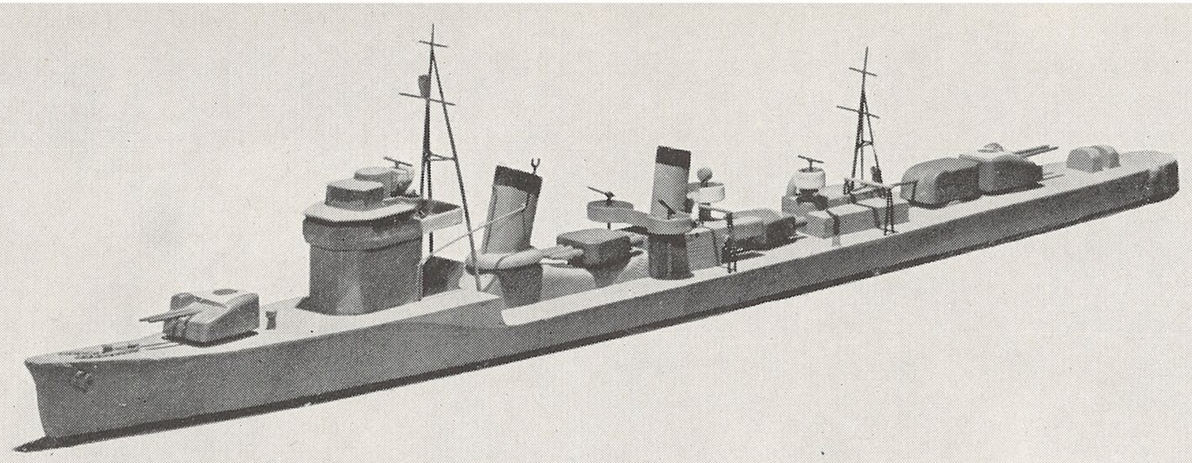
15° ELEVATION

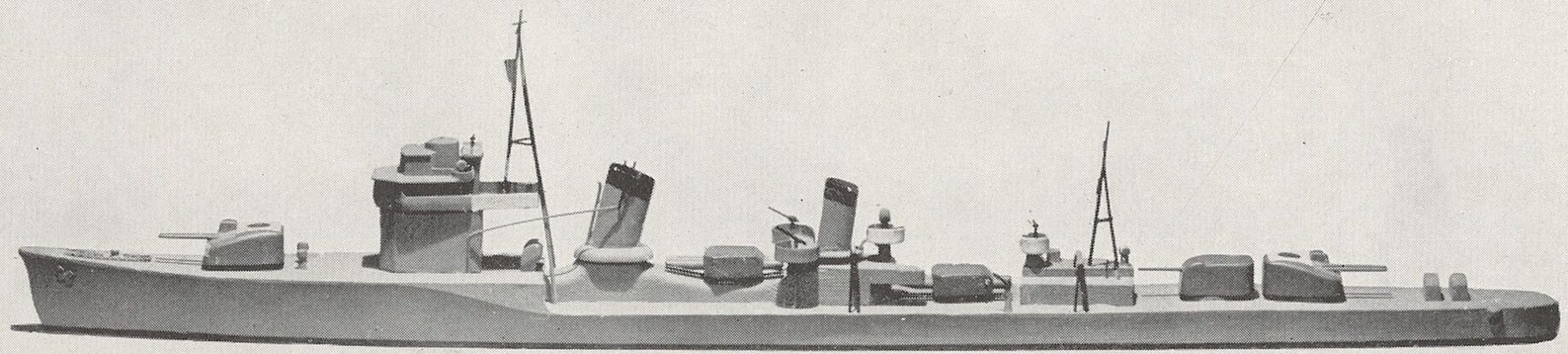
ONI 41-42

0°

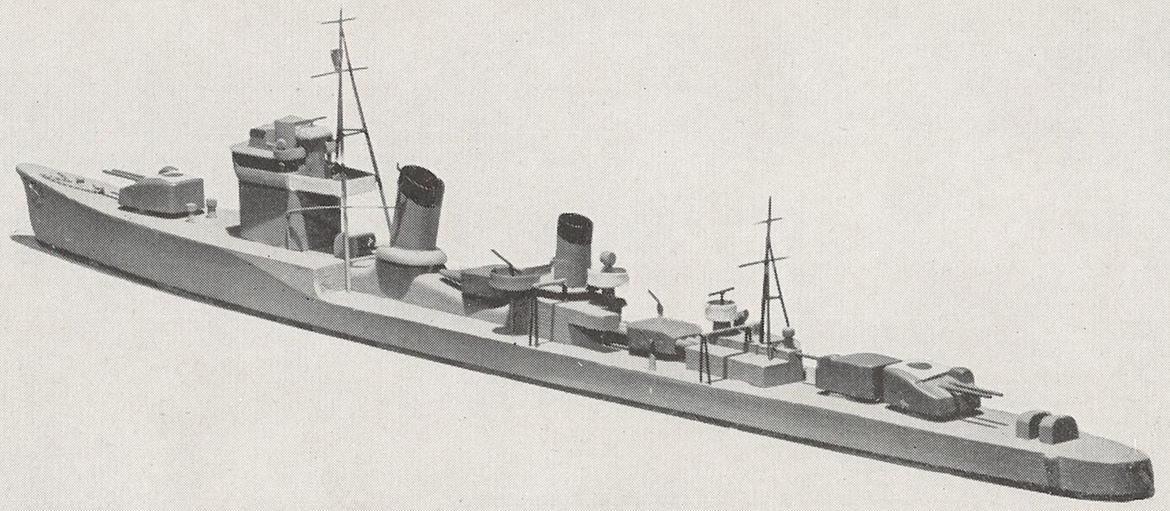


315°

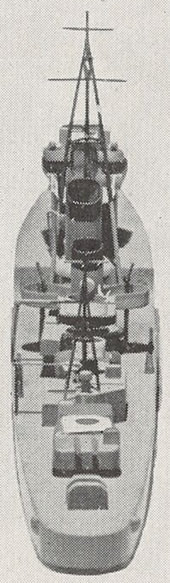




270°



180°



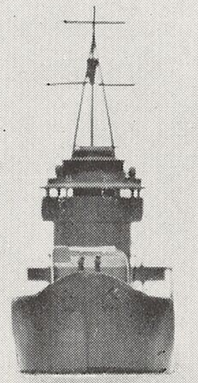
225°

HATSUHARU CLASS—DD 60-65

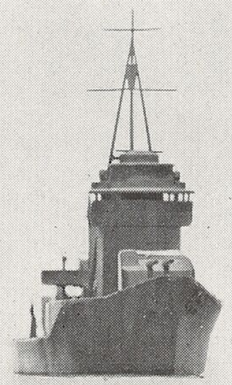
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

TARGET ANGLES

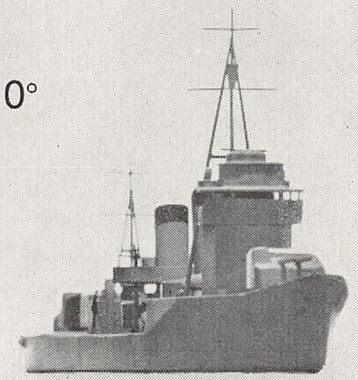
0°



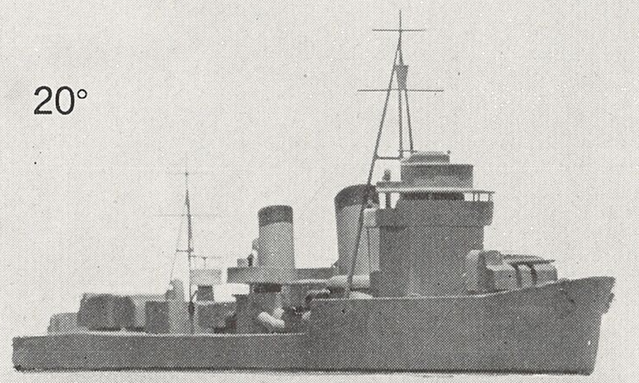
5°



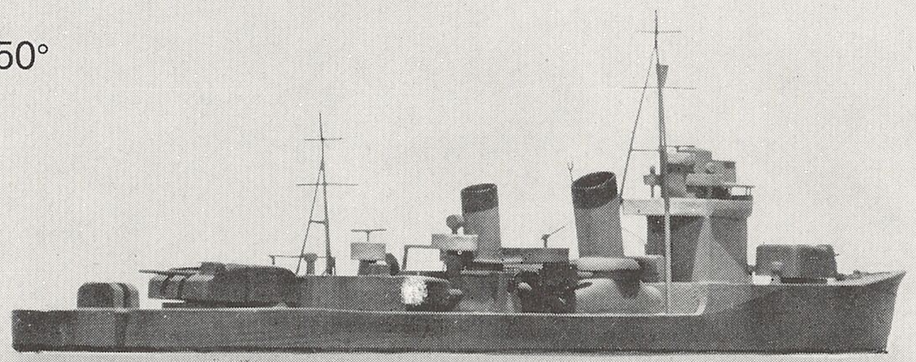
10°



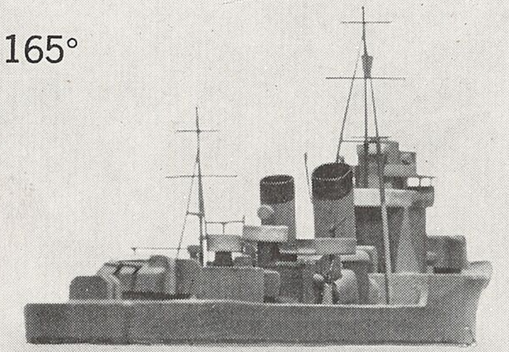
20°



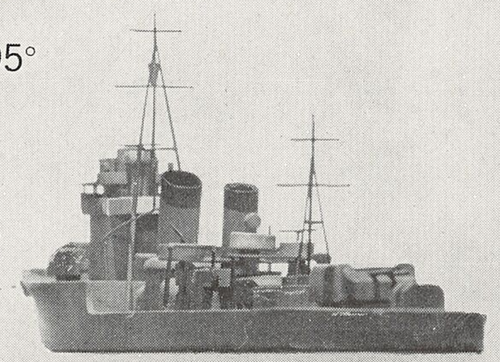
150°



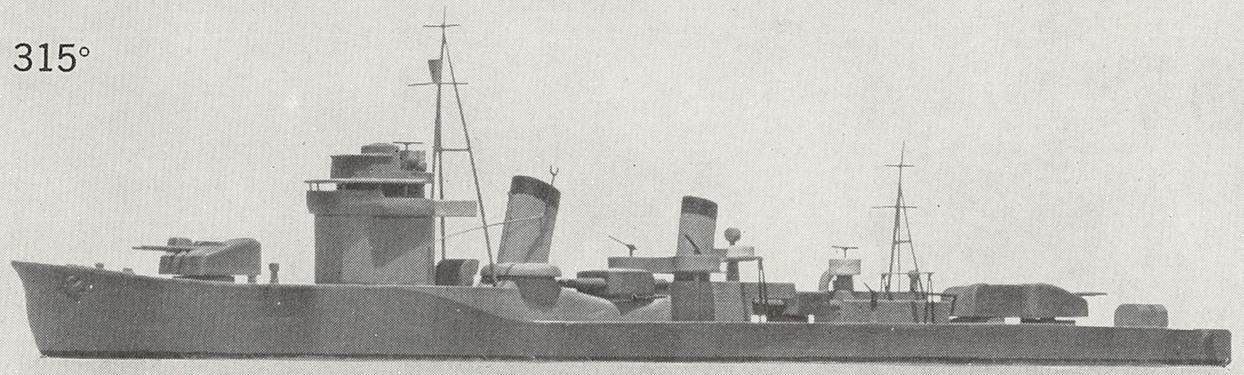
165°



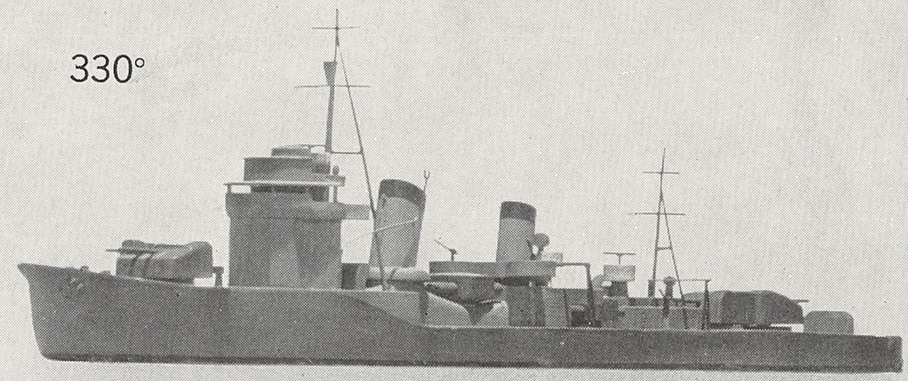
195°



315°



330°



ONI 41-42

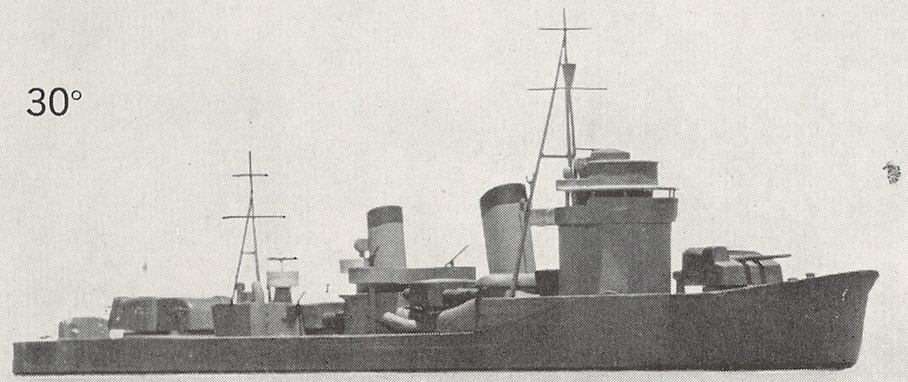
KNOTS	RPM
	420
34	390
	350
	325

KNOTS	RPM
	300
	275
	250
	225

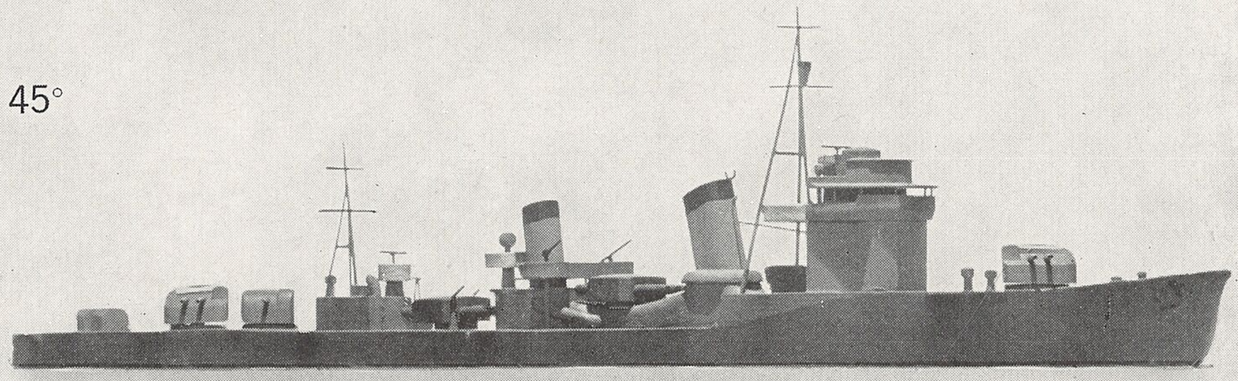
KNOTS	RPM
	200
	175
	150
	125

KNOTS	RPM
	100
	75
	50
	25

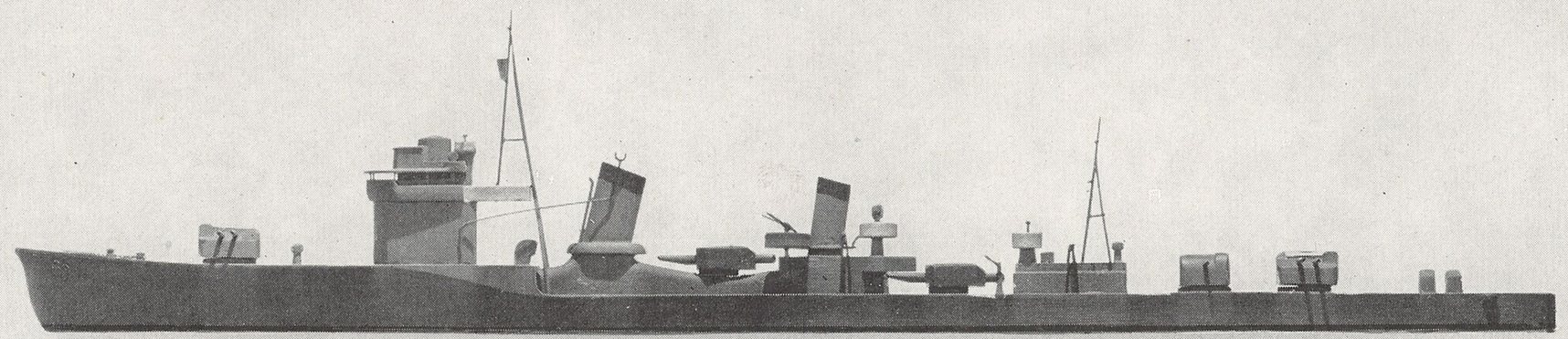
30°



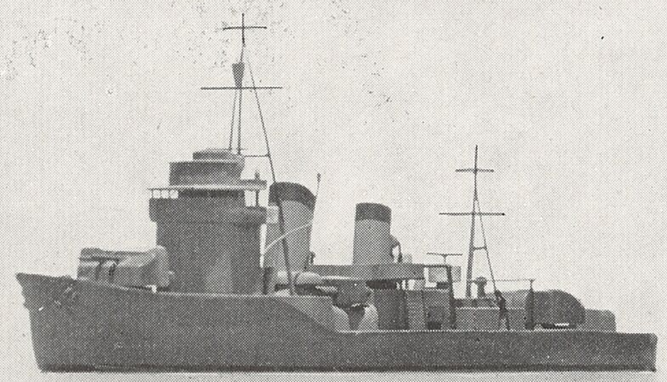
45°



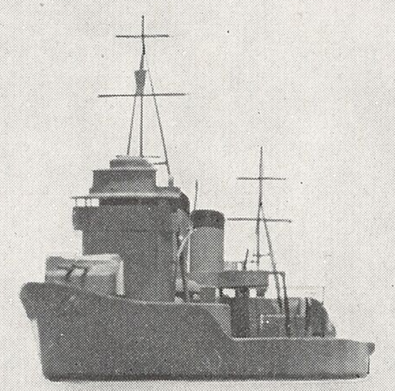
270°



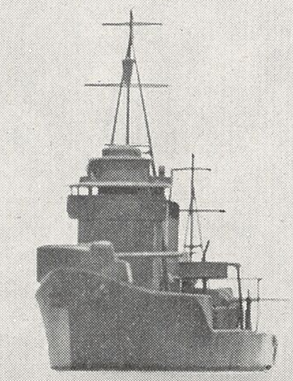
340°



350°



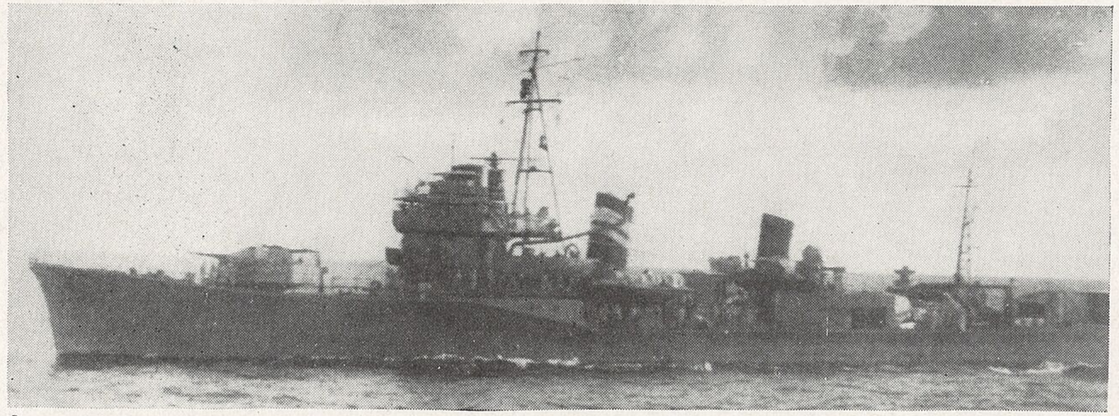
355°



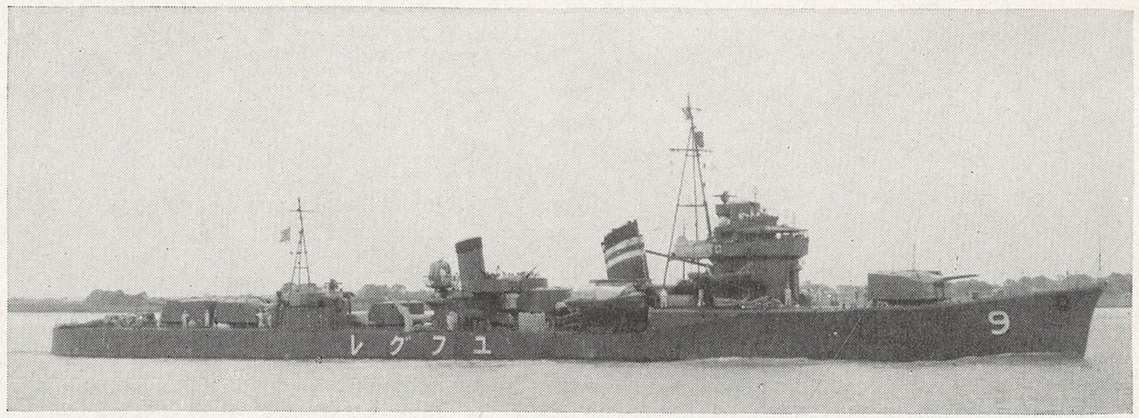
HATSUHARU CLASS—DD 60-65

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

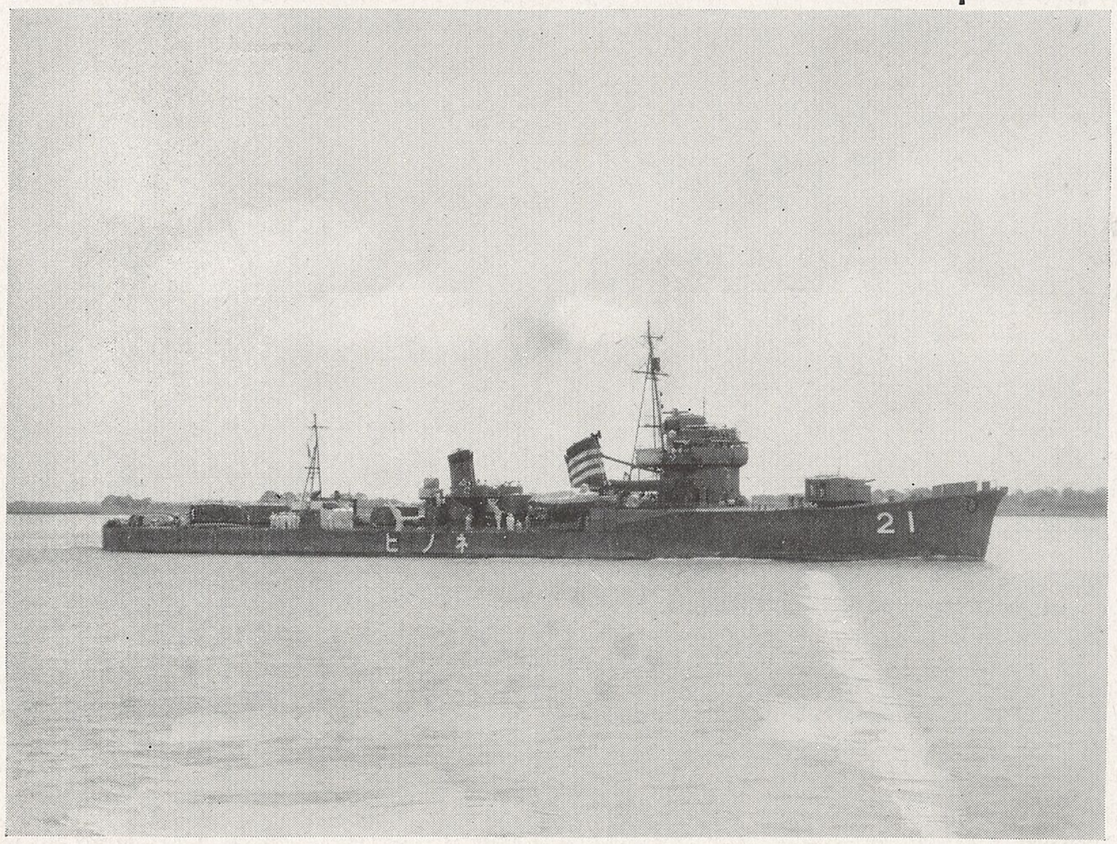
	BEGUN	COMPLETED		BEGUN	COMPLETED
HATSUHARU —DD60	5/14/31	9/30/33	WAKABA—DD63	12/12/31	10/31/34
HATSUSHIMO—DD61	1/31/33	9/27/34	ARIAKE —DD64	1/14/33	3/25/35
NENOHI —DD62	12/15/31	9/30/33	YUGURE—DD65	4/ 9/33	3/30/35

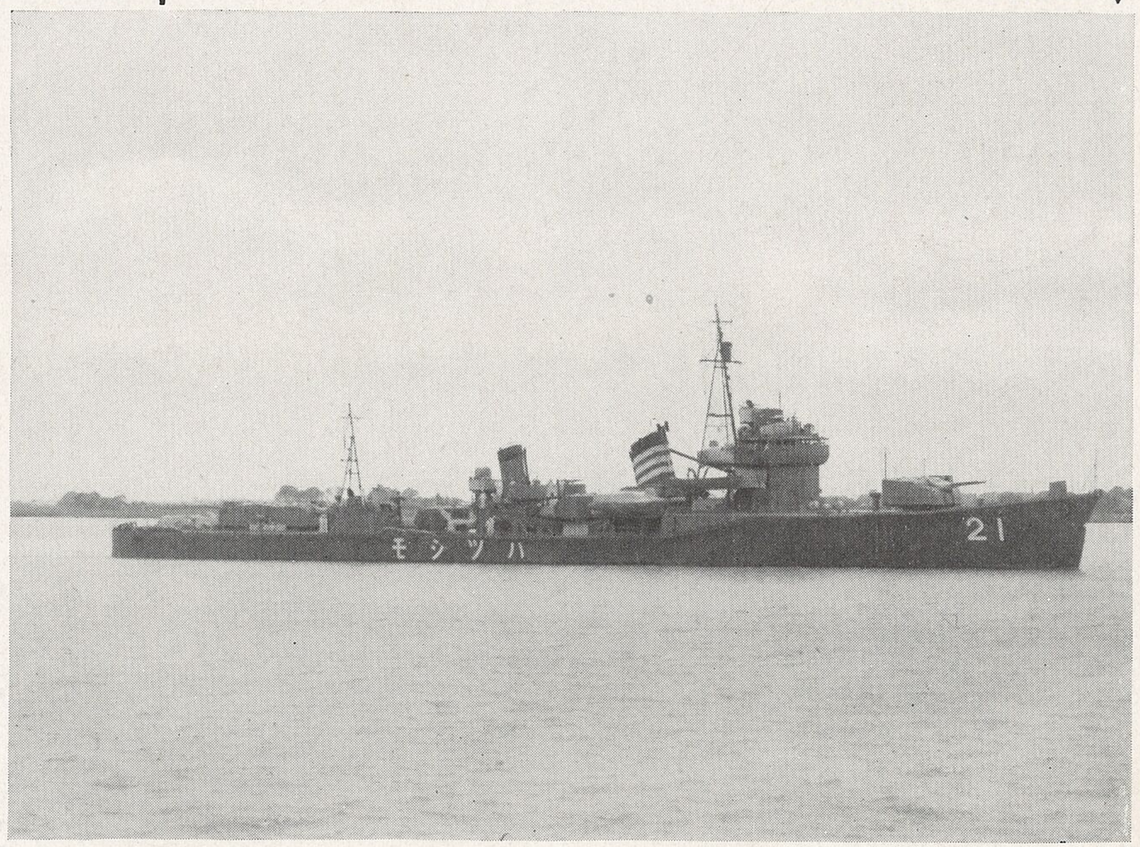


↓ NENOHI—8/18/37



↑ 1941—YUGURE—8/16/37





HATSUSHIMO—8/18/37 ↓

ONI 41-42

SHIGURE CLASS—DD 66-75

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

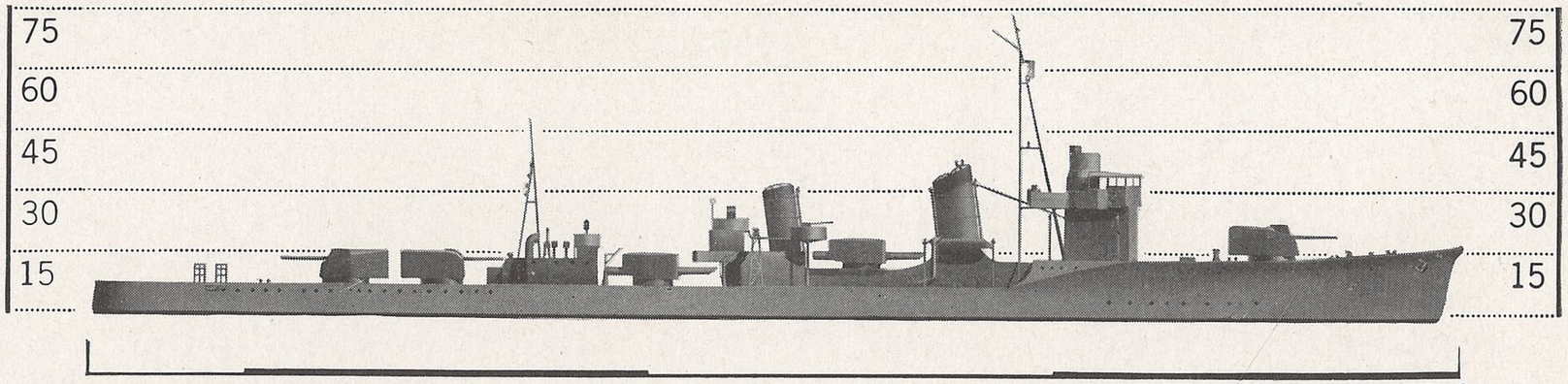
ARMAMENT

5– 5″ (50) AA (2 TWINS AND 1 SINGLE)
2 AAMG
8–21″ TORPEDO TUBES (QUADS)
? MINES 16 DEPTH CHARGES

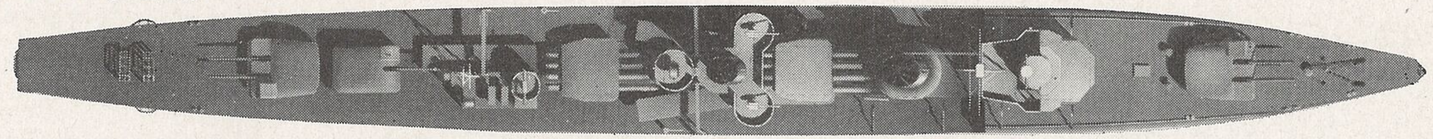
PROPULSION

MACHINERY— GEARED TURBINES
BOILERS— FOUR KAMPON
FUEL— OIL, 500
DESIGNED HP— 37,000
DESIGNED SPEED—34 KNOTS
ENDURANCE— 6,000 MILES @ 15 KNOTS
1,020 MILES @ 34 KNOTS

10 SHIGURE CLASS—DD 66-75

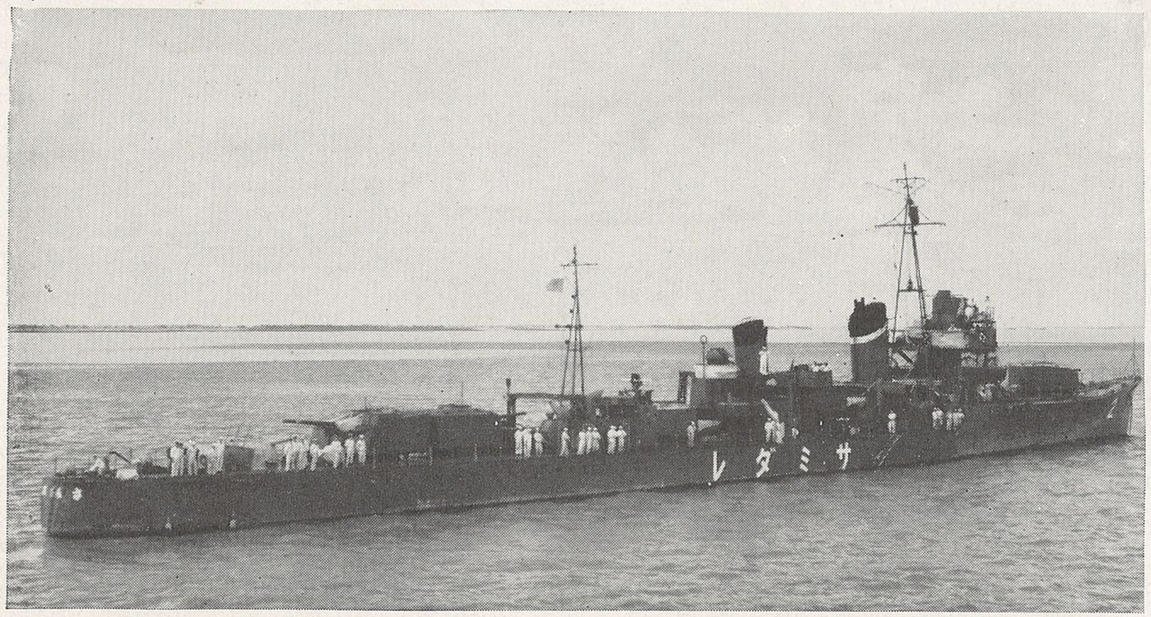


LENGTH—341′3″ OA 335′5″ WL
BEAM— 31′9″
DRAFT— 9′3″ (MEAN)

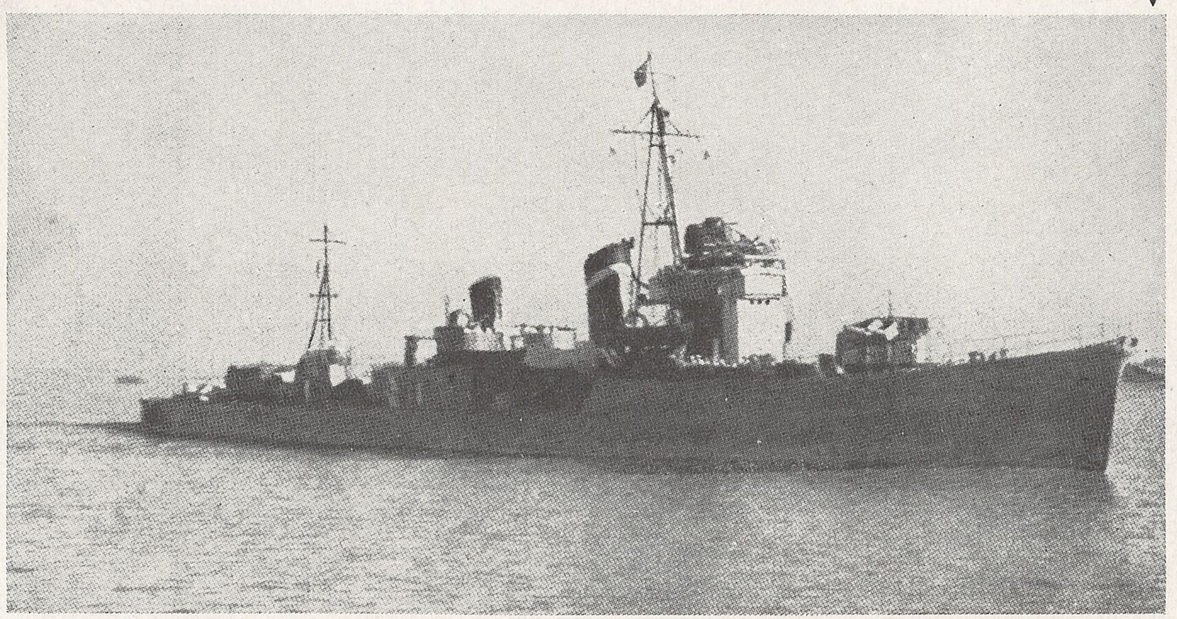


DISPLACEMENT—1,368 TONS (STANDARD)

↓ SAMIDARE—SEPTEMBER 1937



KAWAKAZE ↓



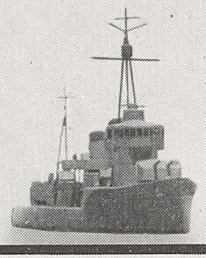
SHIGURE CLASS—DD 66-75

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

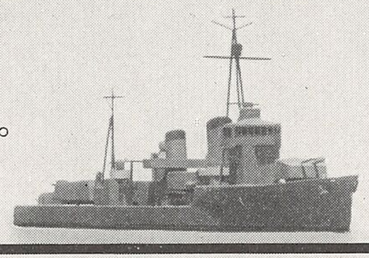
		BEGUN	COMPLETED
SHIGURE—	DD 66	12/ 9/33	9/ 7/36
SHIRATSUYU—	DD 67	11/14/33	8/20/36
MURASAME—	DD 68	2/ 1/34	1/ 7/37
YUDACHI—	DD 69	10/16/34	11/1/36
HARUSAME—	DD 70	2/ 3/35	9/ ?/37
SAMIDARE—	DD 71	12/19/34	2/ 3/37
YAMAKAZE—	DD 72	5/25/35	5/ ? /37
SUZUKAZE—	DD 73	7/ 7/35	5/ ? /37
KAWAKAZE—	DD 74	4/25/35	5/ ? /37
UMIKAZE—	DD 75	4/ 5/35	5/31/37

0°

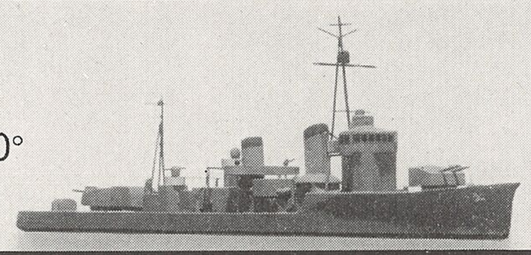
10°



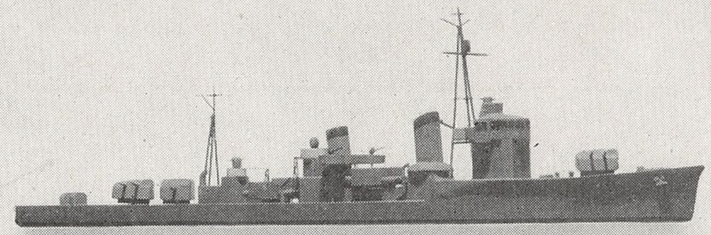
20°



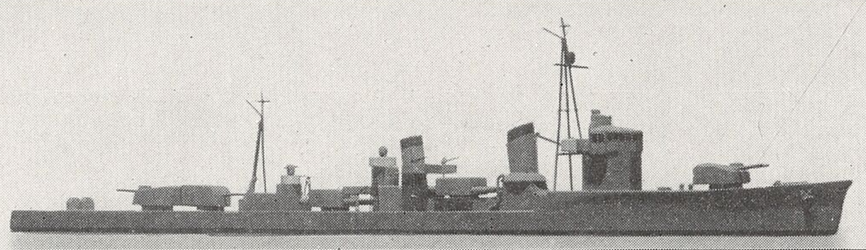
30°

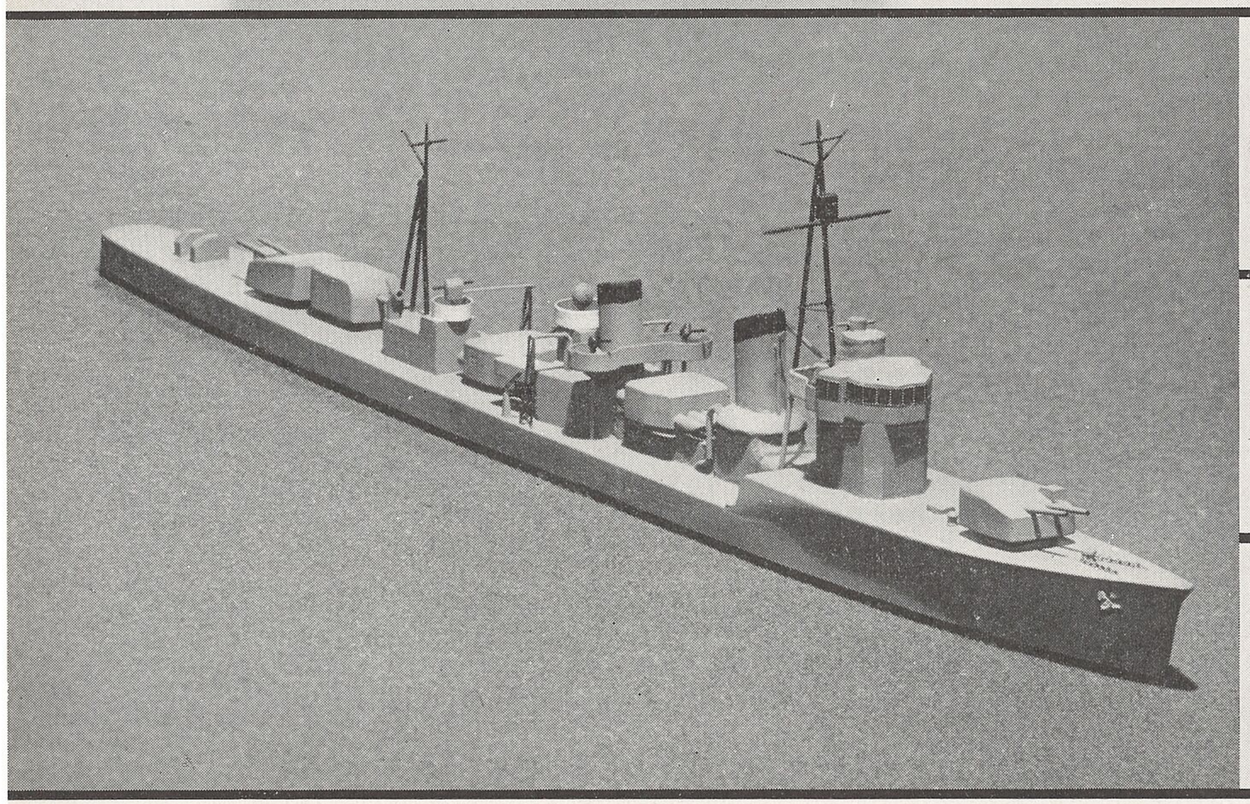


45°

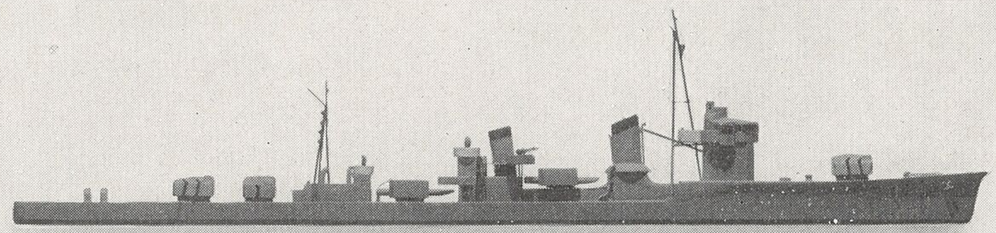


60°





90°



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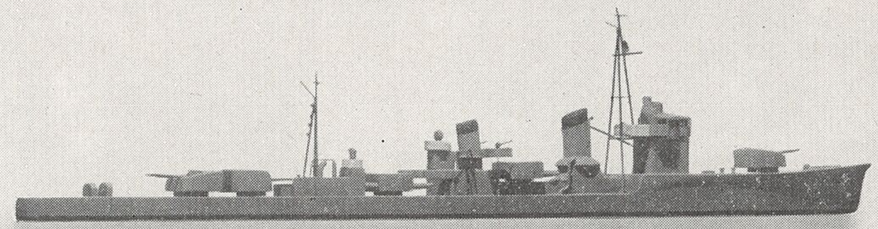
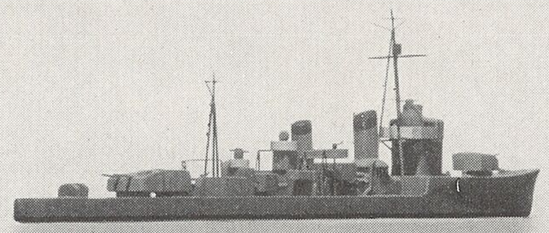


150°

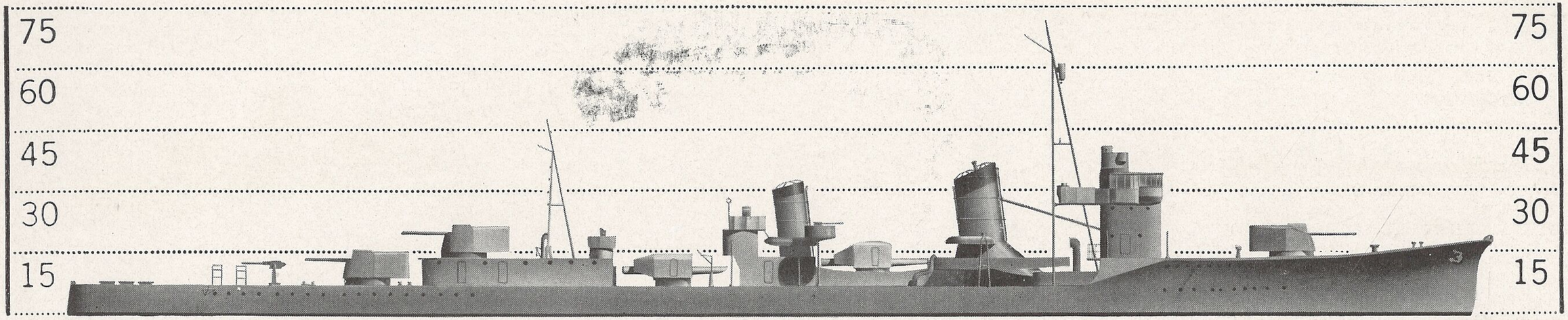


165°

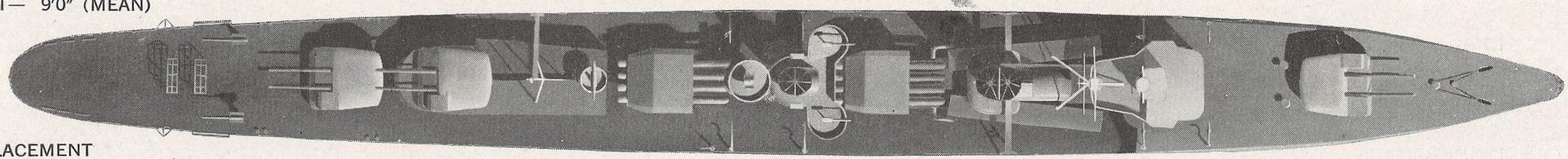
ONI 41-42 RESTRICTED

ASASHIO CLASS—DD 76-85

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL, 1943



LENGTH—361′6″ OA, 356′2″ WL
BEAM— 33′4″
DRAFT— 9′0″ (MEAN)



DISPLACEMENT
1,500 TONS (STANDARD)

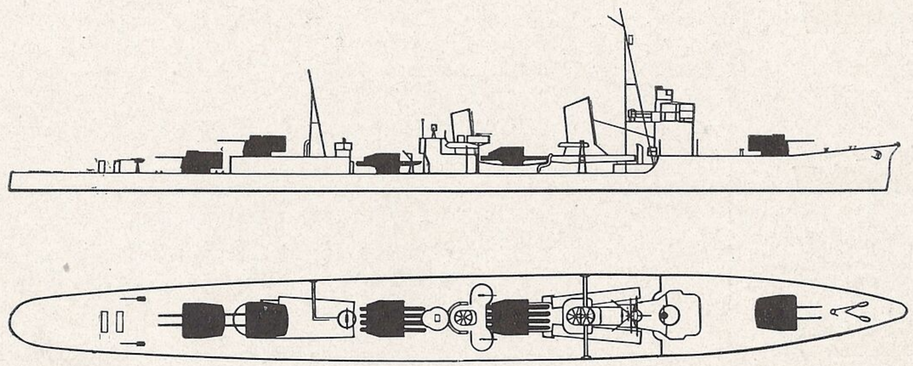
ARMAMENT

MAX. ELEV. MAX. RANGE

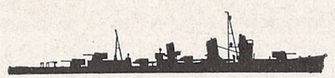
6–5″ TWIN MOUNTS
2 M.G.
8–21″ TORPEDO TUBES (POSSIBLY 24″)
14 (?) DEPTH CHARGES

PROPULSION

MACHINERY— GEARED TURBINES
BOILERS— THREE KAMPON
FUEL— OIL, 500 TONS
DESIGNED HP— 38,000
DESIGNED SPEED—34 KNOTS
ENDURANCE— 5,700 MILES @ 10 KNOTS
960 MILES @ 34 KNOTS



10 ASASHIO CLASS—DD 76-85



KAGERO CLASS—DD 86-117
BELIEVED SIMILAR

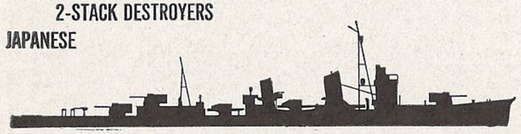
ASASHIO CLASS

DD 76-85

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

MISTAKEN IDENTITY

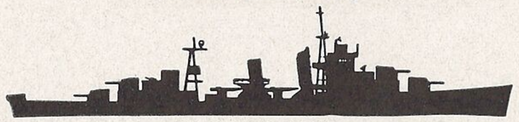
2-STACK DESTROYERS
JAPANESE



ASASHIO CLASS

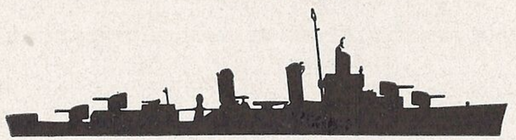
UNITED NATIONS
NOTE THAT ALL THESE VESSELS HAVE SUPERFIRING GUNS FORWARD

FARRAGUT CLASS (U.S.)



PORTER CLASS (U.S.)

MAHAN CLASS (U.S.)



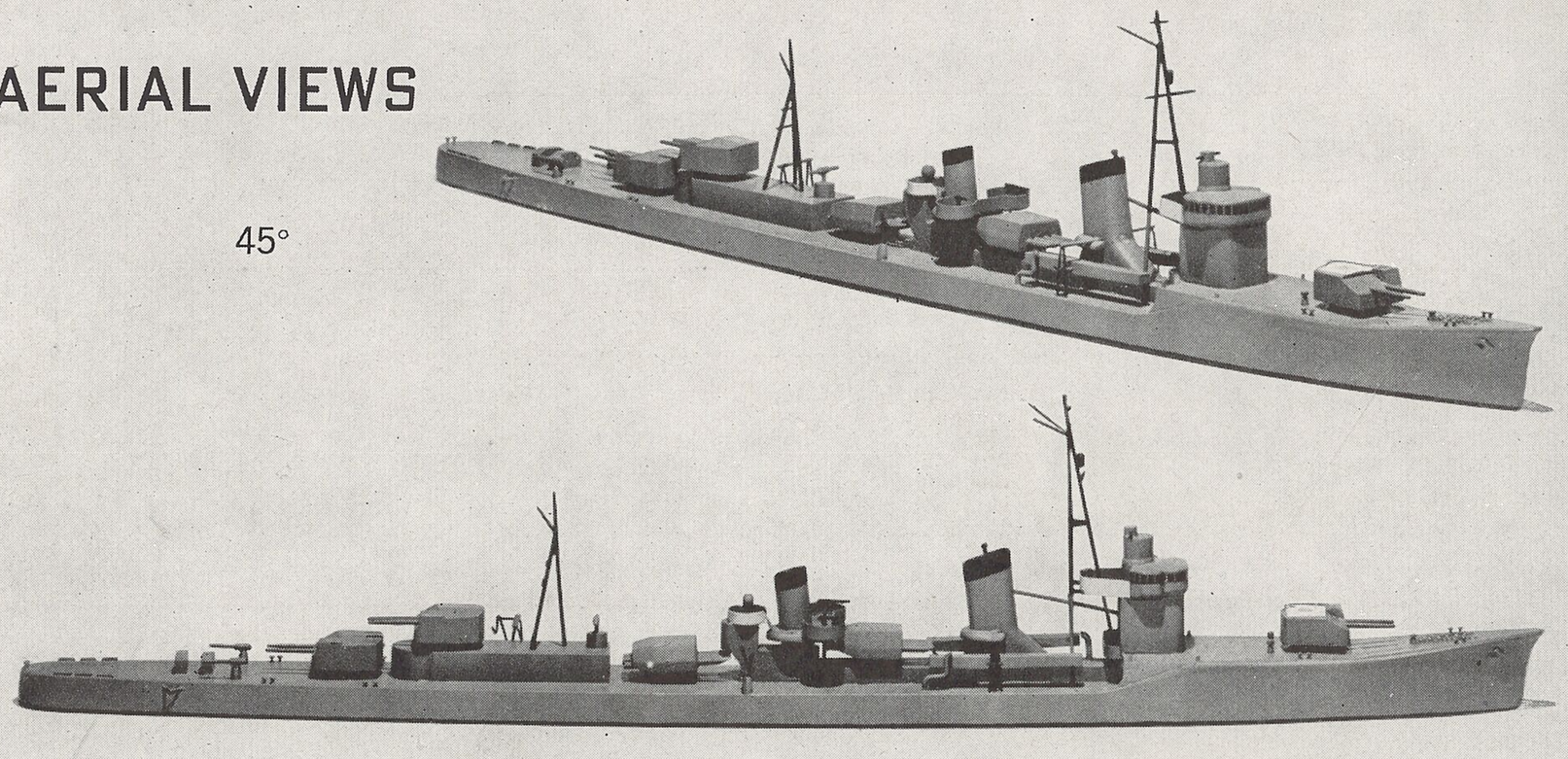
BENSON CLASS (U.S.)

FLETCHER CLASS (U.S.)

"A" TO "I" CLASSES (BR.)

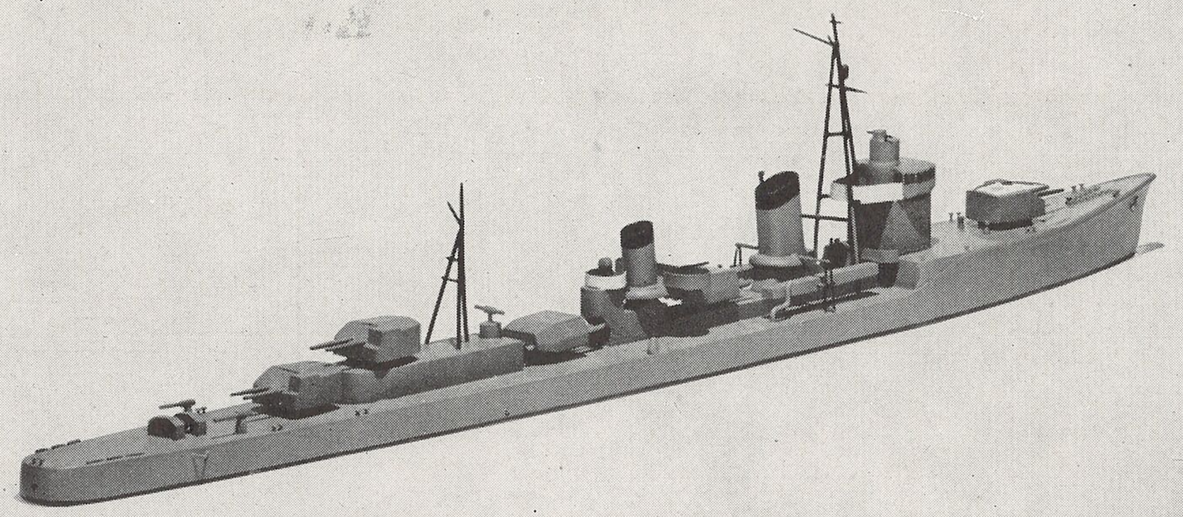
AERIAL VIEWS

45°



90°

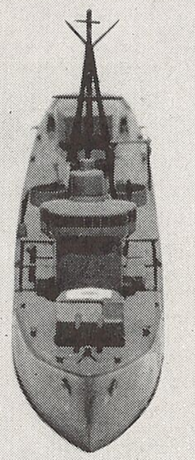
135°



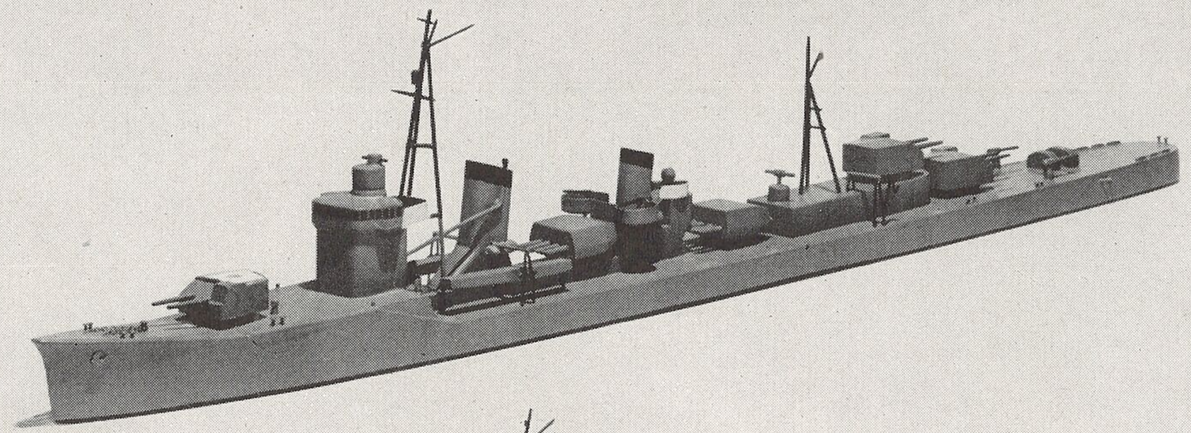
15° ELEVATION

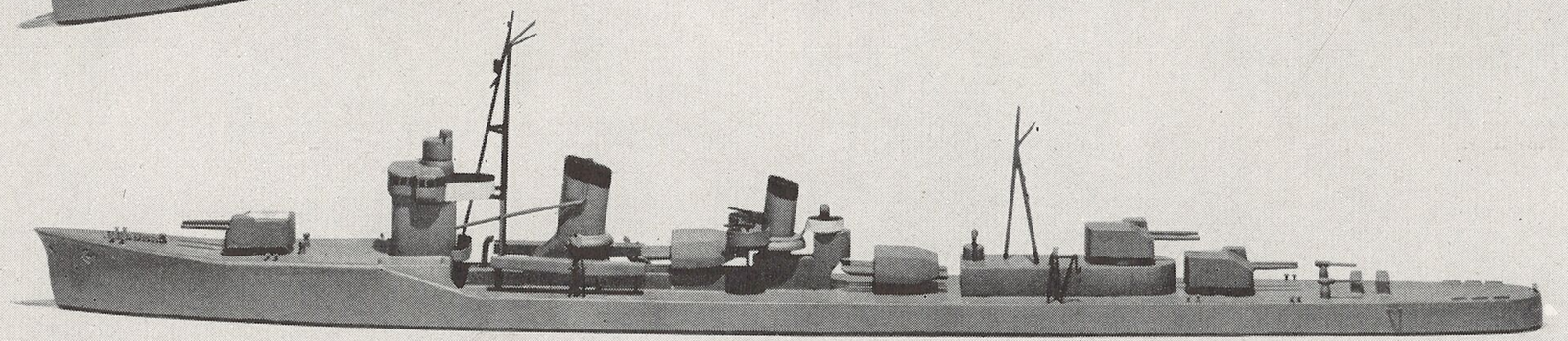
ONI 41-42

0°

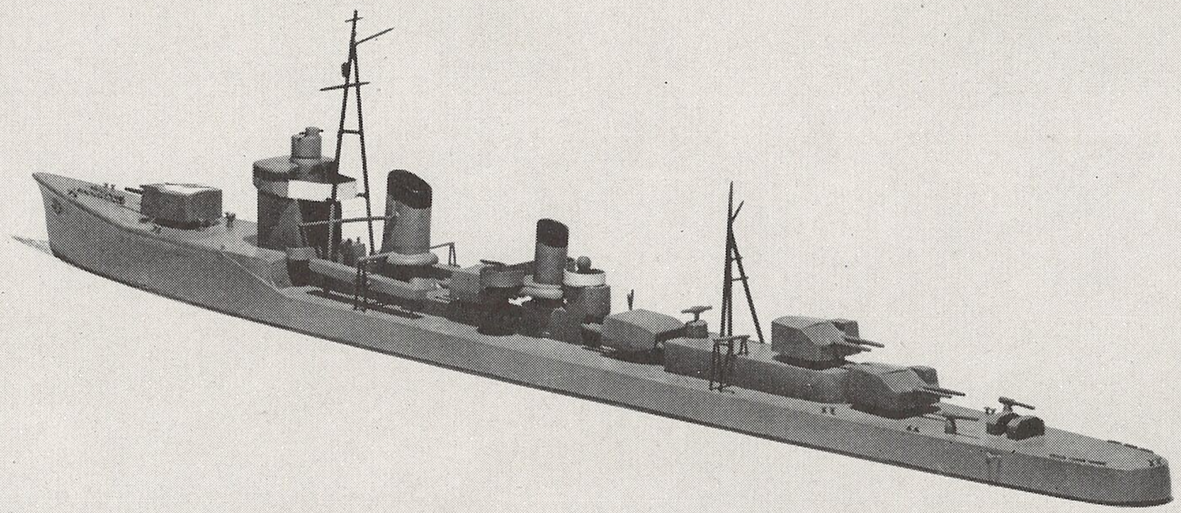


315°

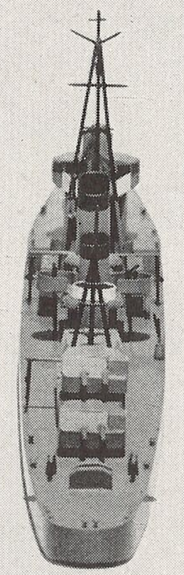




270°



180°



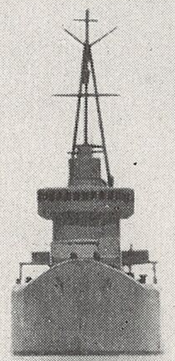
225°

ASASHIO CLASS—DD 76-85

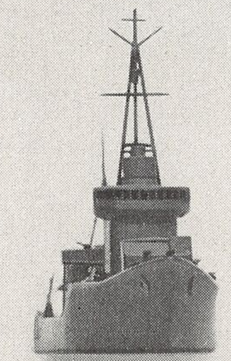
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

TARGET ANGLES

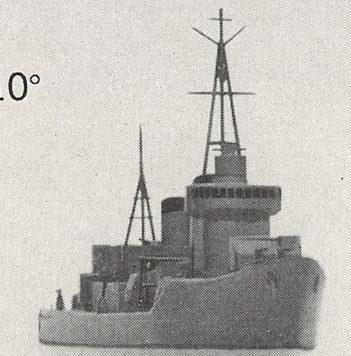
0°



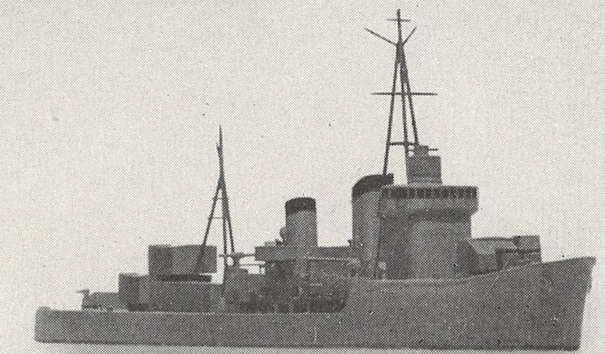
5°



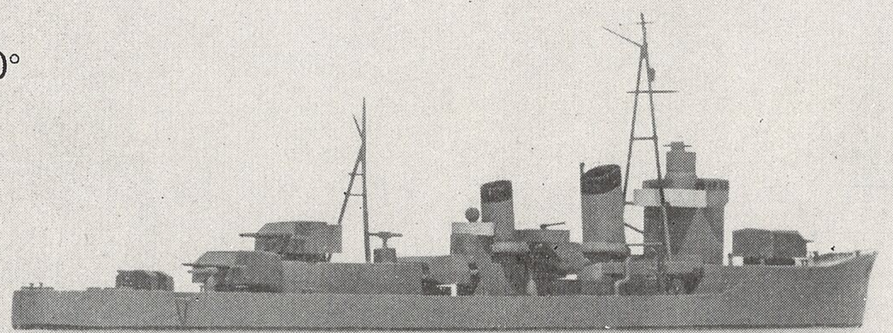
10°



20°

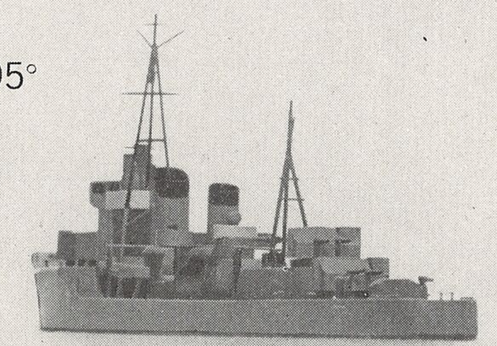


150°

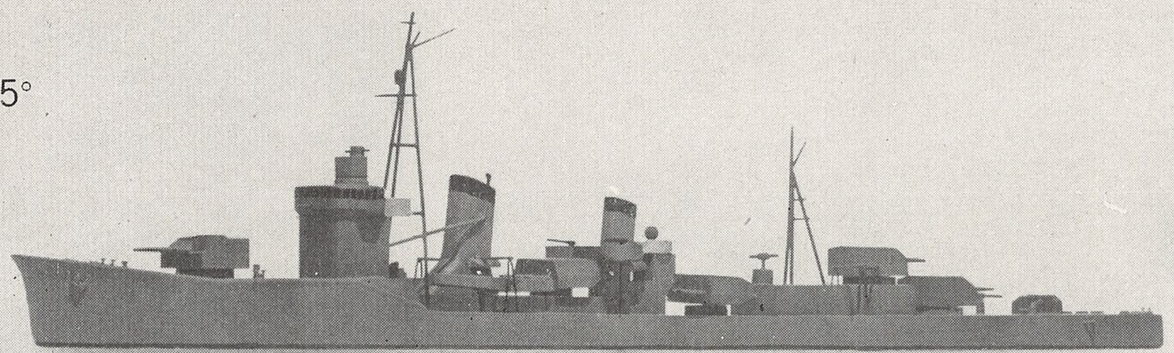


165°

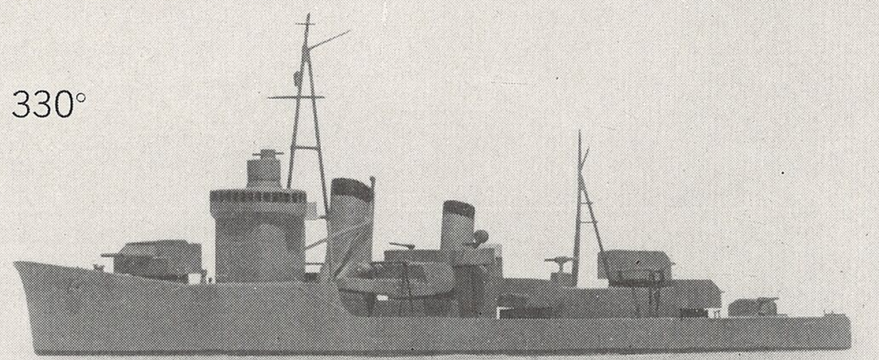
195°



315°



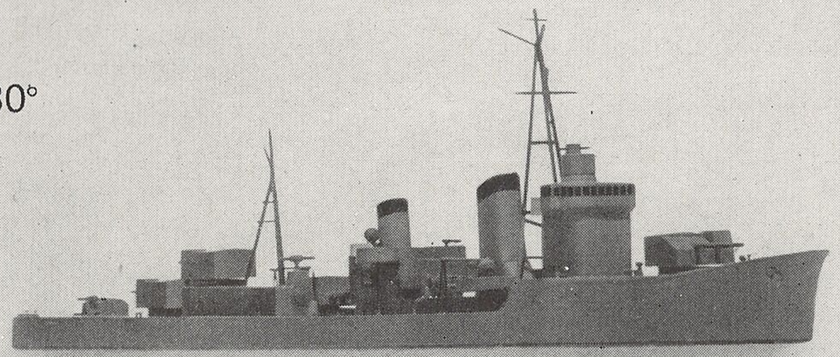
330°



KNOTS	RPM	KNOTS	RPM	KNOTS	RPM	KNOTS	RPM
	400		300		200		100
	375		275		175		75
	350		250		150		50
	325		225		125		25

ONI 41-42

30°



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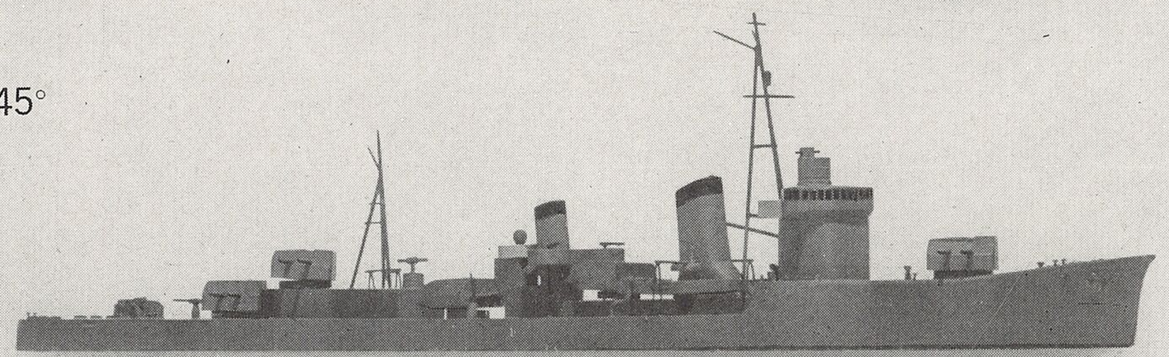

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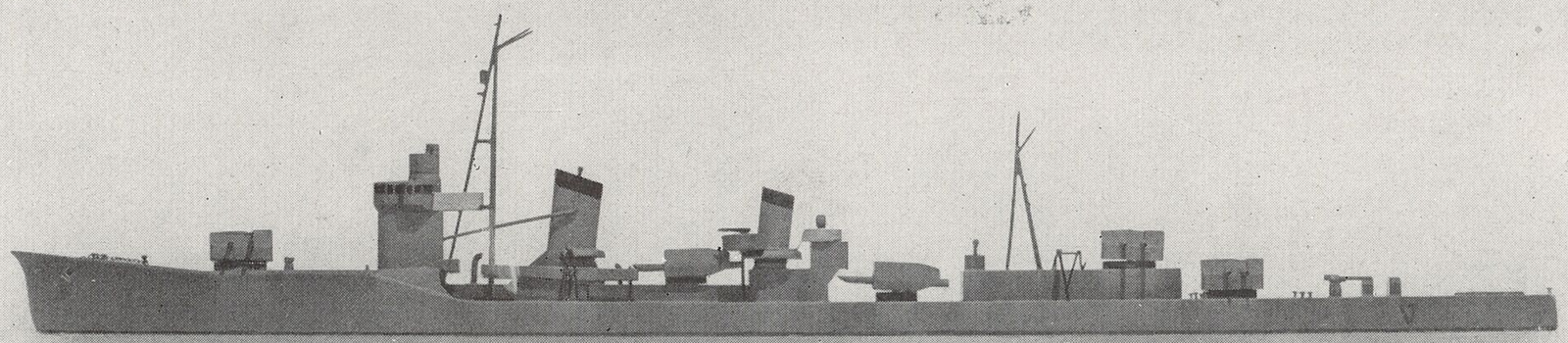
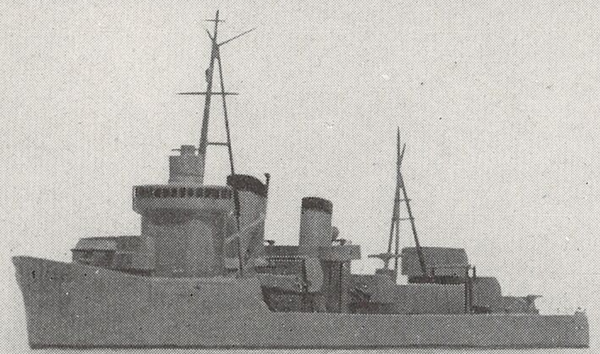


340°



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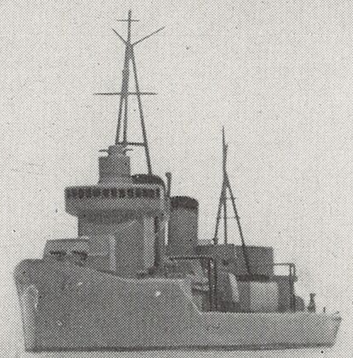
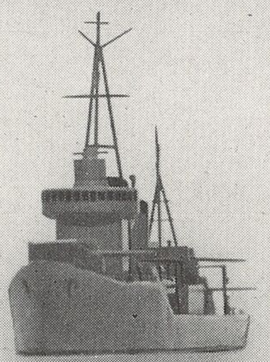
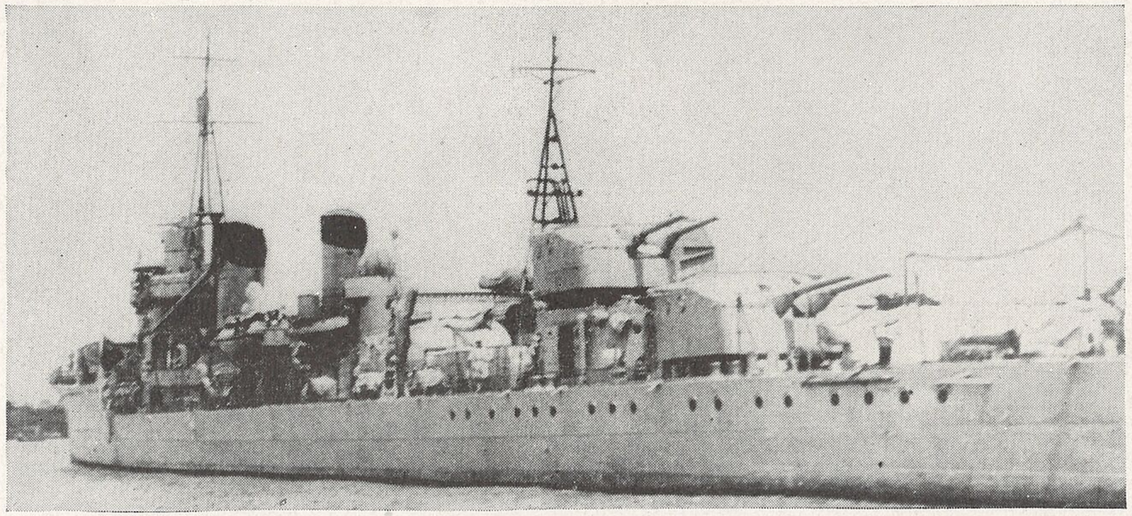


355°

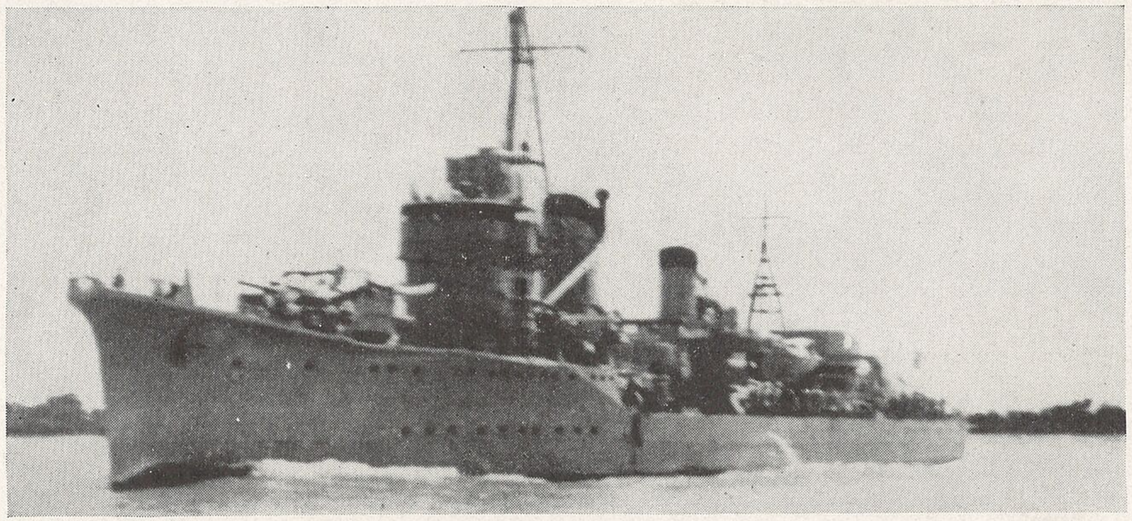


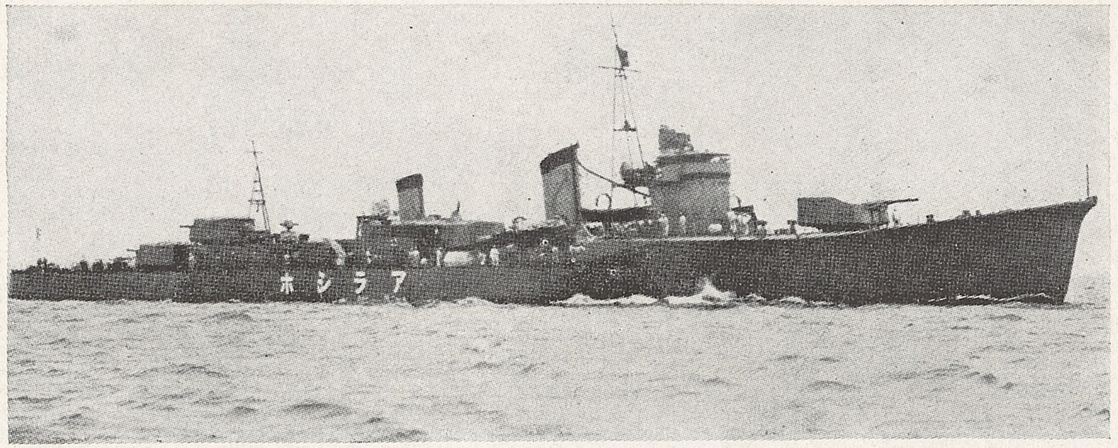
ASASHIO CLASS—DD76-85

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —APRIL, 1943



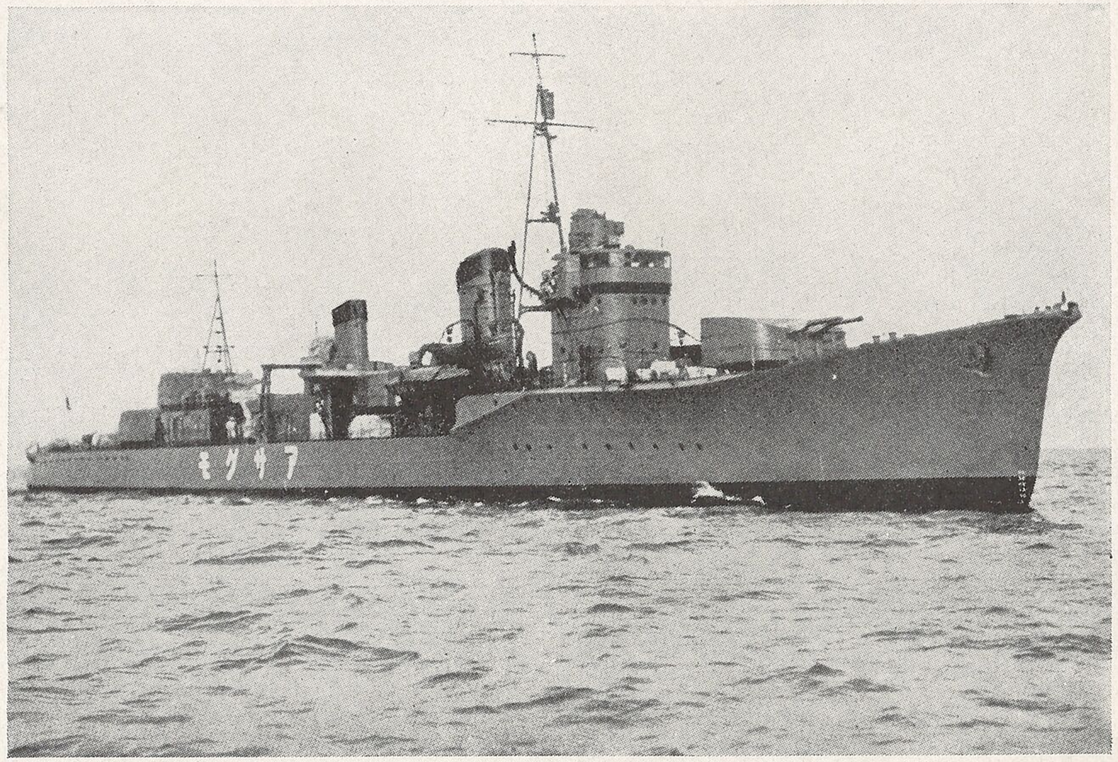
		BEGUN	COMPLETED	
ASASHIO—	DD 76	9/ 7/35	8/31/37	
ARASHIO—	DD 77	10/ 1/35	11/37	
OSHIO—	DD 78	8/ 5/36	10/31/37	
MICHISHIO—	DD 79	11/ 5/35	11/37	
ASAGUMO—	DD 80	12/23/36	3/38	REPORTED WAR LOSS
YAMAGUMO—	DD 81	11/ 4/36	3/38	
MINEGUMO—	DD 82	1937	1938	REPORTED WAR LOSS
NATSUGUMO—	DD 83	7/ 1/36	2/10/38	
KASUMI—	DD 84	12/ 1/36	6/28/39	
ARARE—	DD 85	3/ 5/37	4/15/39	





↑ ARASHIO 12/38

ASAGUMO 11/38 ↓



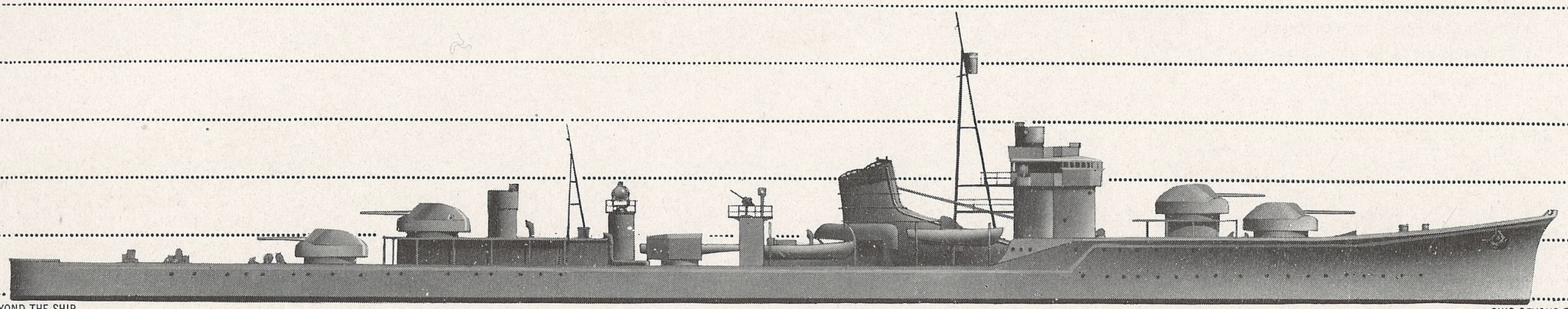
ONI 41-42 RESTRICTED

DD UN-1 CLASS*

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—MARCH, 1943

HEIGHT OF OBSERVER

75
60
45
30
15

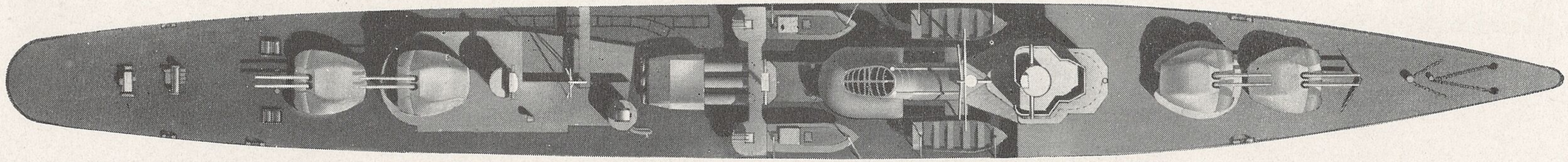


HORIZON BEYOND THE SHIP

SHIP BEYOND THE HORIZON

0

LENGTH—405′ OA
BEAM —37′
DRAFT —?



DISPLACEMENT—2,300 TONS (STANDARD)

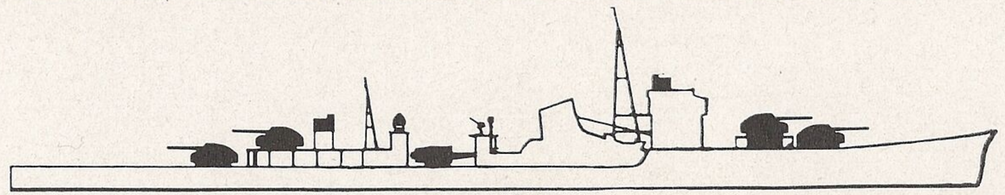
ARMAMENT

8-5″ (50) DUAL PURPOSE TWINS
? SMALL AA GUNS
3-21″ OR 24″5 TORPEDO TUBES
ONE OR MORE SETS OF RELOADS

PROPULSION

DESIGNED SPEED—34 KNOTS (E)
THIS DATA ESTIMATED FROM PHOTOGRAPHIC MATERIAL AND DESIGN TRENDS.

DESIGN AND ARMAMENT SUGGESTS ESCORT OR SCREENING DUTIES



DD UN-1 CLASS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION
AND CHARACTERISTICS SECTION —APRIL. 1943

MISTAKEN IDENTITY

DD UNKNOWN 1

CA MOGAMI CLASS

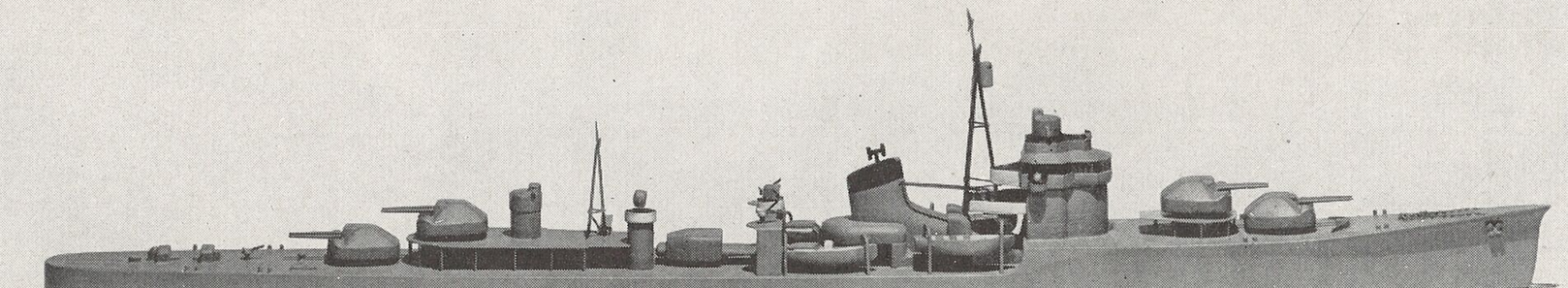
CL YUBARI

TB CHIDORI, OTORI CLASSES

ALSO—TB—TRAD CLASS (THAI)
PG—PING HAI, NING HAI (EX-CHINESE)

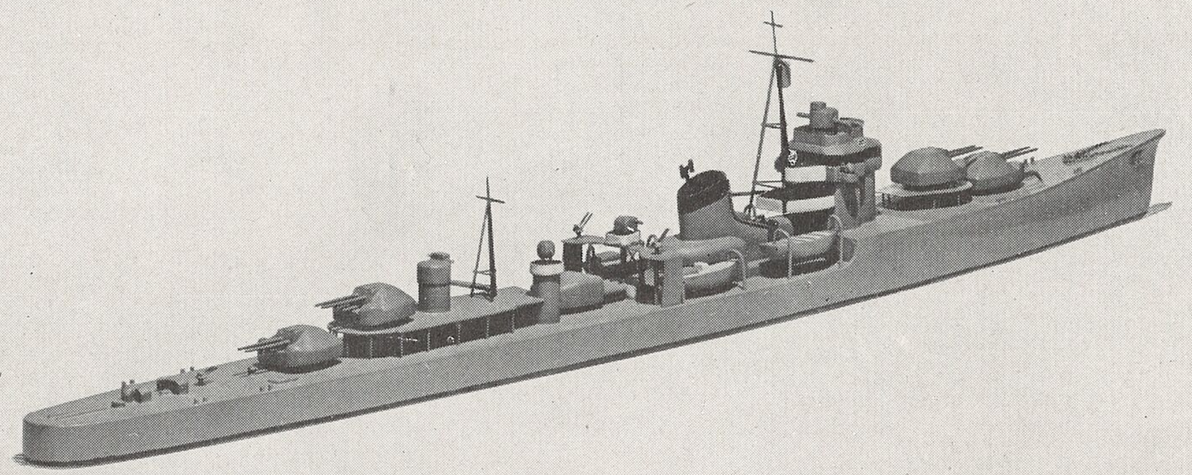
AERIAL VIEWS

45°



90°

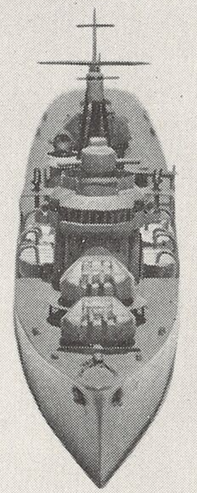
135°



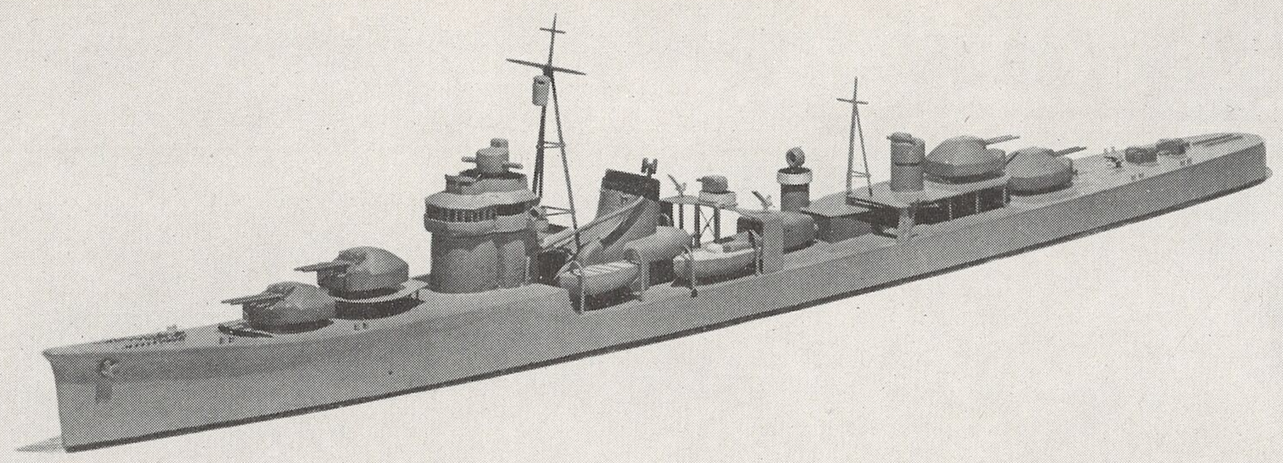
15° ELEVATION

ONI 41-42

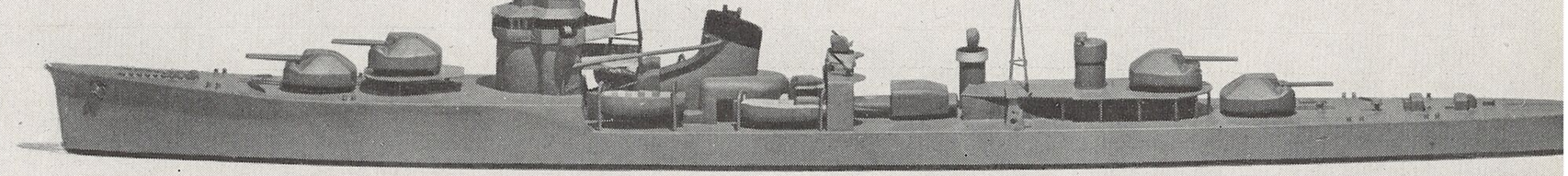
0°



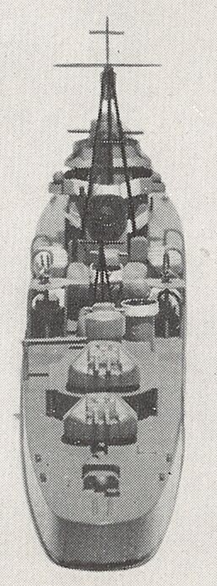
315°



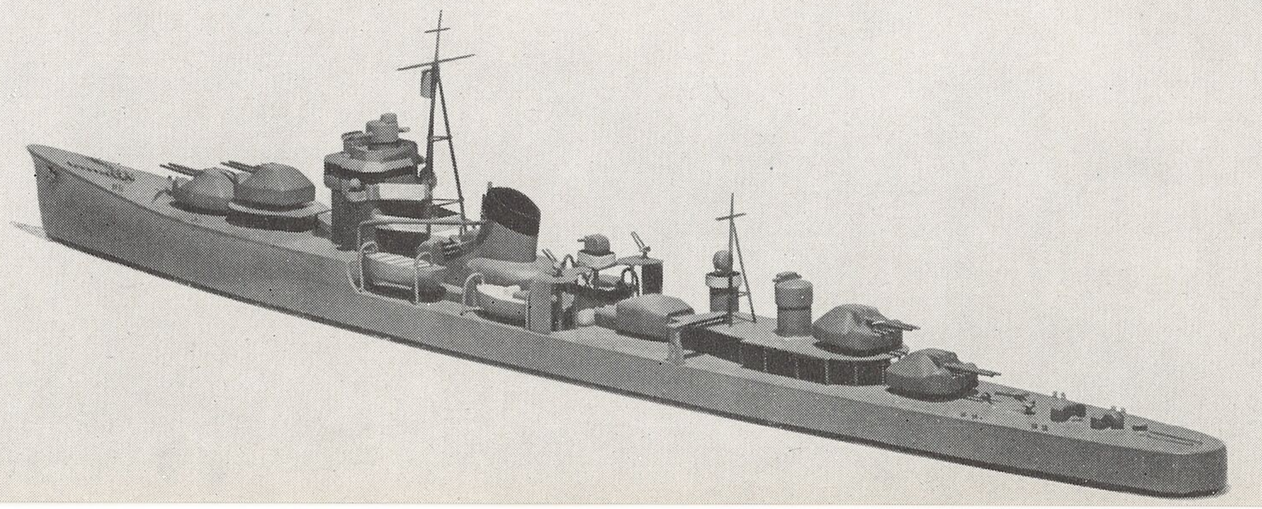
270°



180°



225°



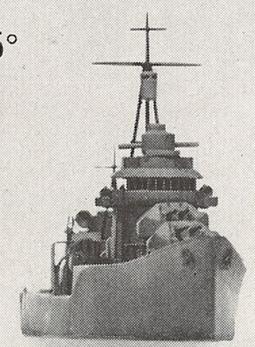
DD UN—1 CLASS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—APRIL, 1943

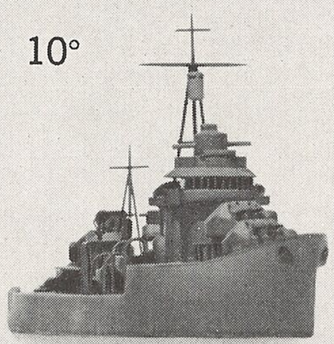
TARGET ANGLES

0°

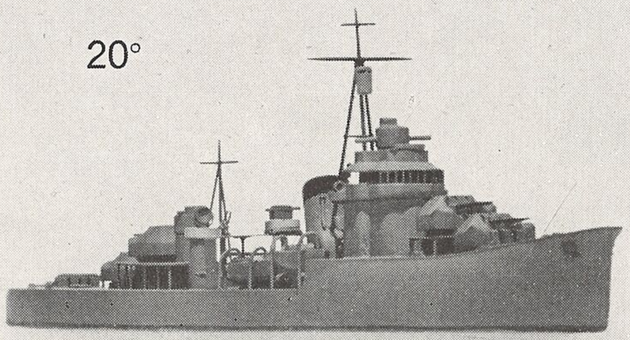
5°



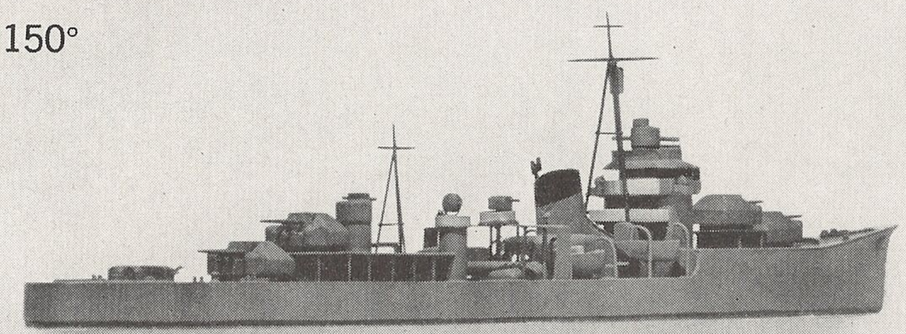
10°



20°

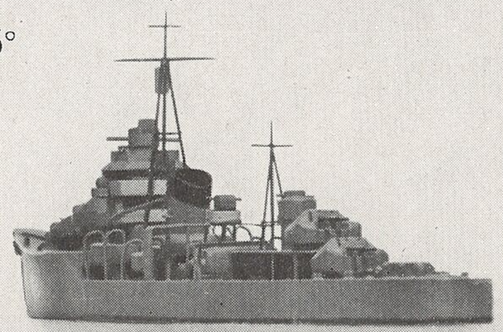


150°

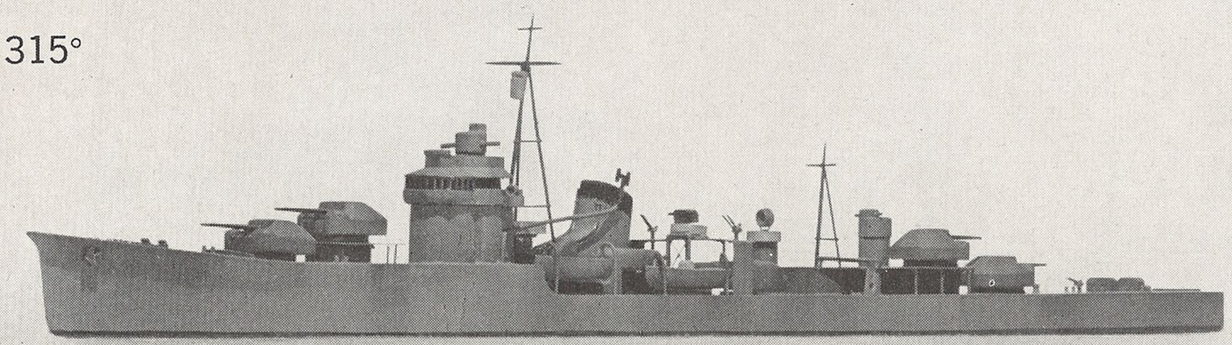


165°

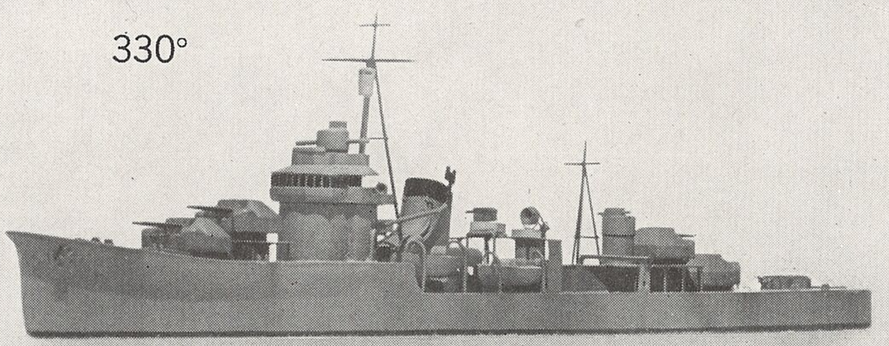
195°



315°



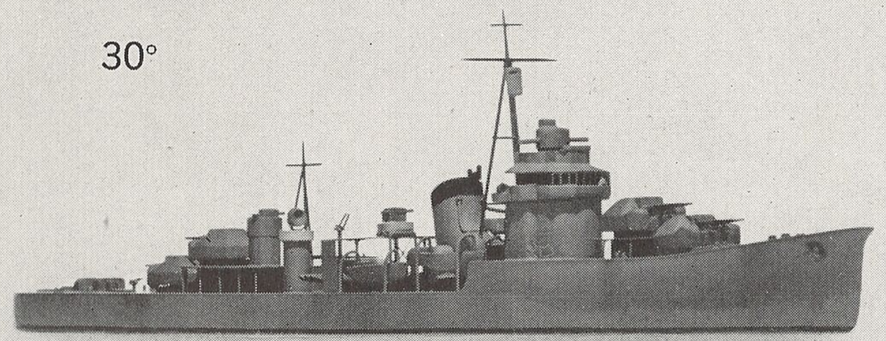
330°



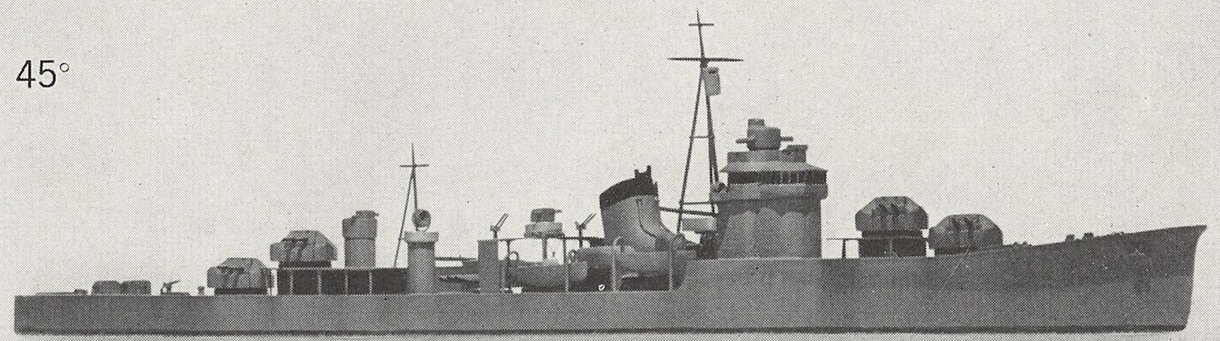
KNOTS	RPM	KNOTS	RPM	KNOTS	RPM	KNOTS	RPM
	400		300		200		100
	375		275		175		75
	350		250		150		50
	325		225		125		25

ONI 41-42

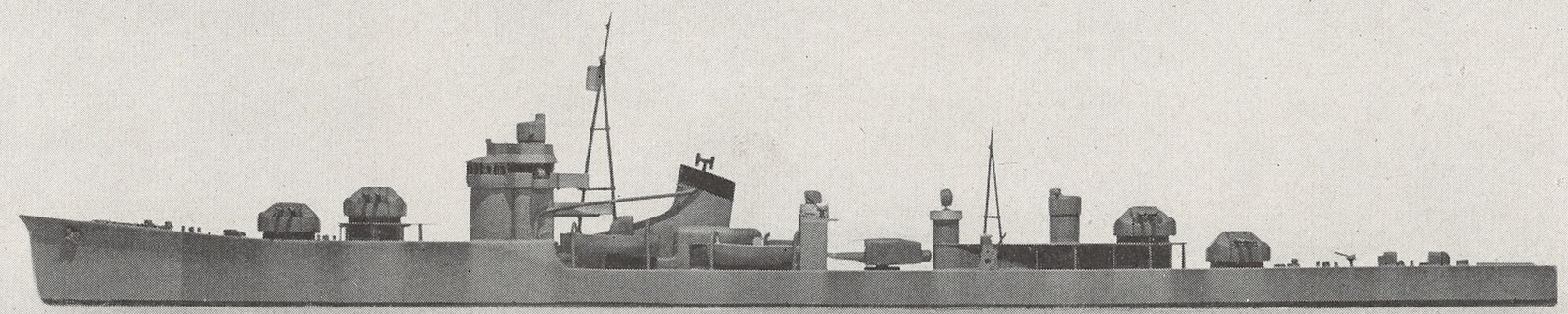
30°



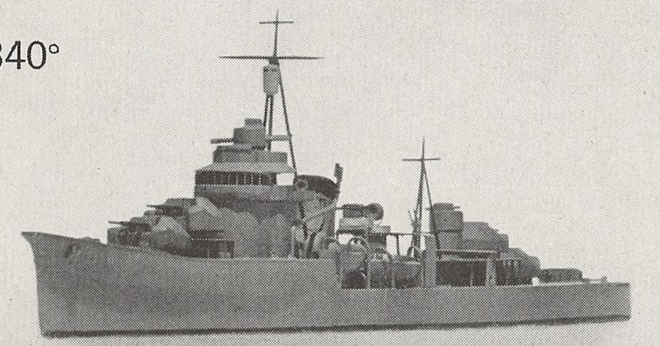
45°



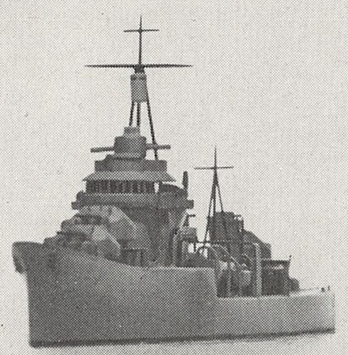
270°



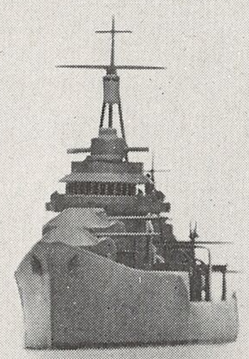
340°



350°



355°

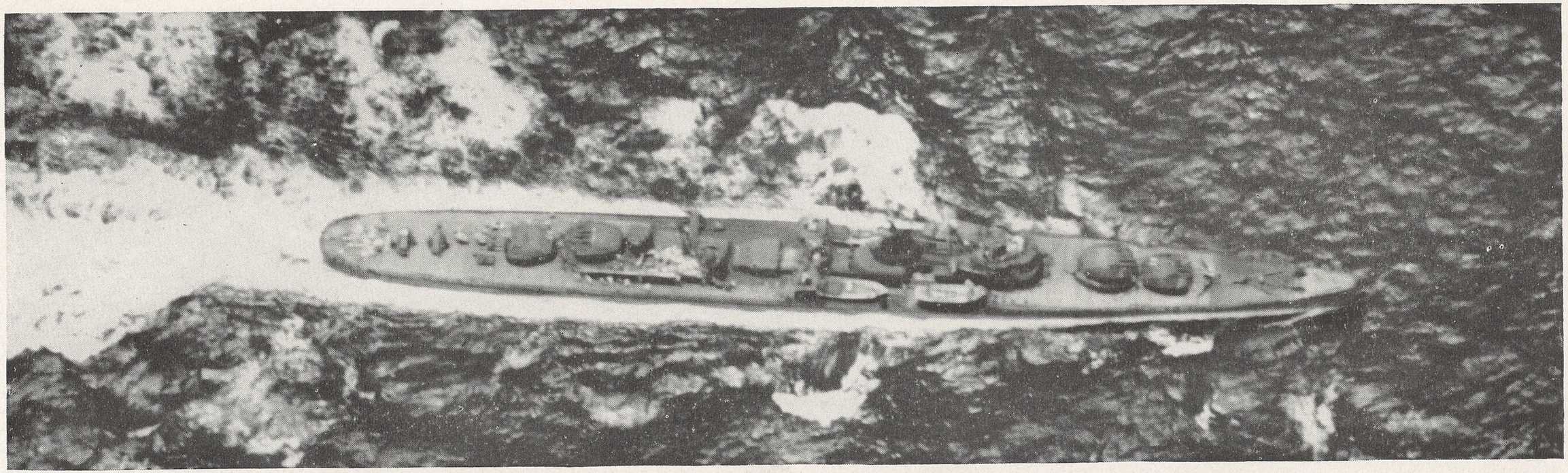


DD UN-1 CLASS

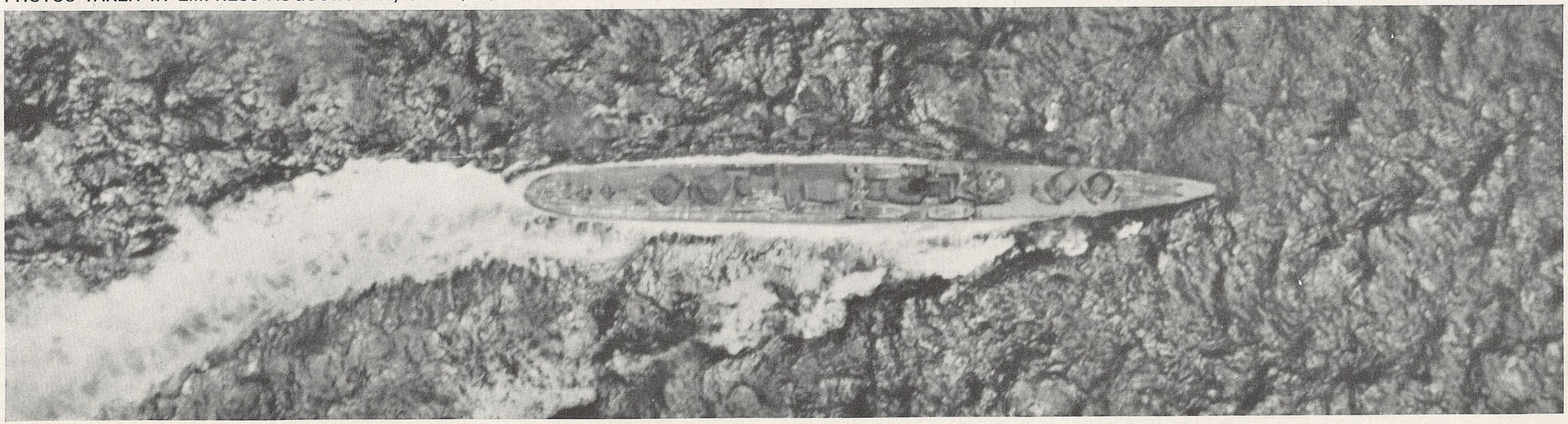
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JANUARY, 1943

COMPLETED: 1942 (?)
NUMBER, NAME OF SISTERS UNKNOWN

ONI 41-42
RESTRICTED



PHOTOS TAKEN IN EMPRESS AUGUSTA BAY, SWP 9/29/42

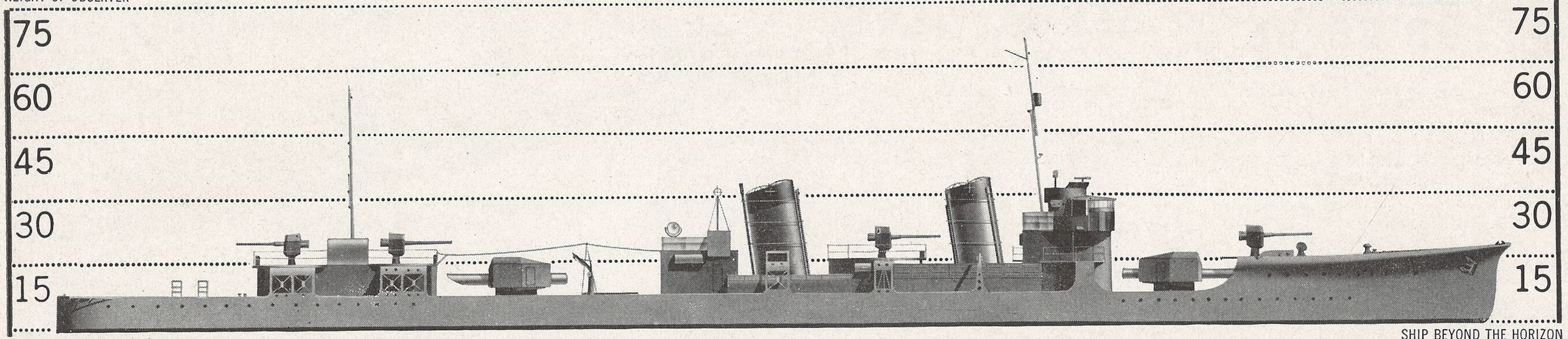


ONI 41-42 RESTRICTED

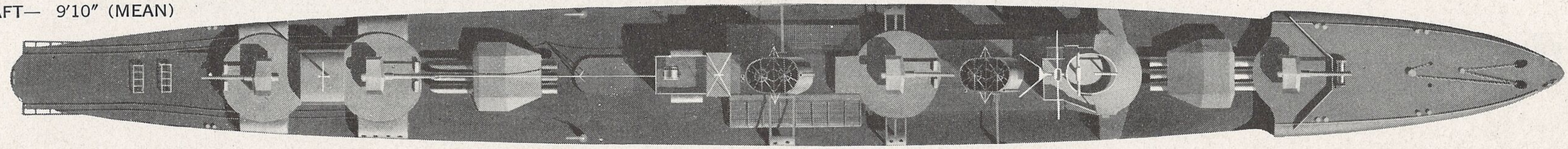
KAMIKAZE CLASS-DD 16-24 SIMILAR WITH TORPEDO ARMAMENT VARIATION.

MUTSUKI CLASS—DD 25-36

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JUNE, 1943



LENGTH—336′6″ OA—331′ WL
BEAM— 30′
DRAFT— 9′10″ (MEAN)



DISPLACEMENT—1,315 TONS (STANDARD)—1,445 TONS (NORMAL)

ARMAMENT

	MAX. ELEV.	RANGE (HORIZONTAL)
4-4″7 (45) AA	45°	19,000 YDS
2-1″4 AA		
6-21″ TORPEDO TUBES (TRIPLE MOUNTS)		(DD 16-24—TWIN MOUNTS)

FITTED FOR MINESWEEPING
50(?)-MINES, 14 DEPTH CHARGES

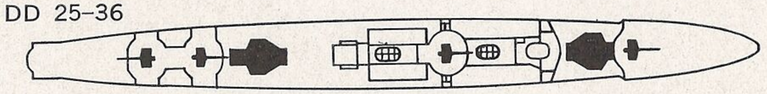
PROPULSION

MACHINERY— FOUR PARSONS DOUBLE SHAFT GEARED TURBINES.
BOILERS— FOUR KAMPON FUEL— OIL, 350 TONS
DESIGNED HP— 38,500
DESIGNED SPEED—34 KNOTS
PROPELLERS— 2

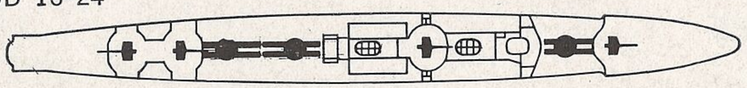
PROTECTION

SPLINTER PROTECTION ON BRIDGES, MAIN BATTERY AND TORPEDO TUBES. WELL COMPARTMENTED. CAN REMAIN AFLOAT AND ON EVEN KEEL WITH THREE OF LARGEST COMPARTMENTS FLOODED.

DD 25-36



DD 16-24



12 MUTSUKI CLASS DD 25-36

9 KAMIKAZE CLASS DD 16-24

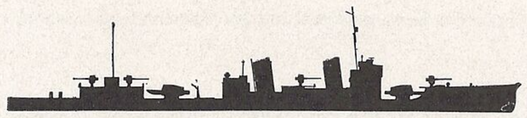
MUTSUKI CLASS DD 25-36

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

JAPANESE SECOND LINE DESTROYERS

MINEKAZE CLASS—DD 1-15

KAMIKAZE CLASS—DD 16-24



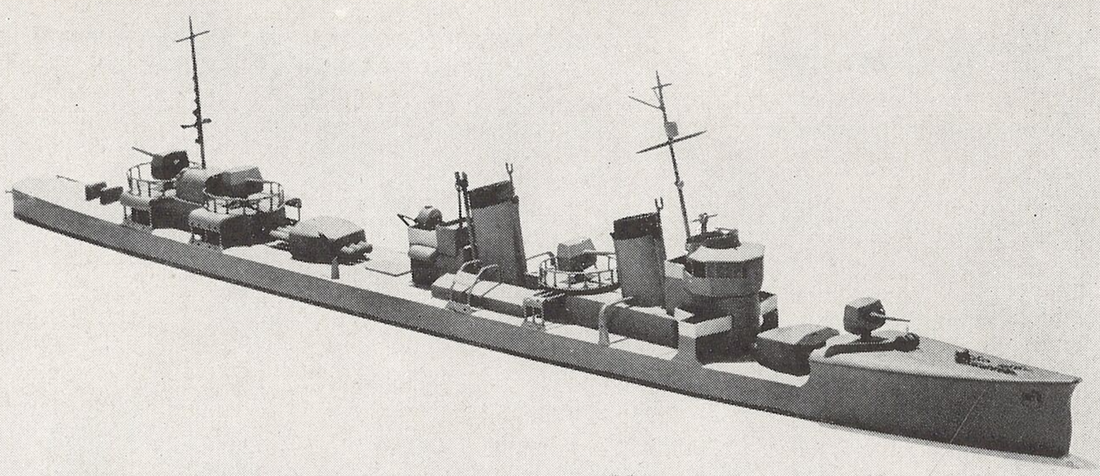
MUTSUKI CLASS—DD 25-36

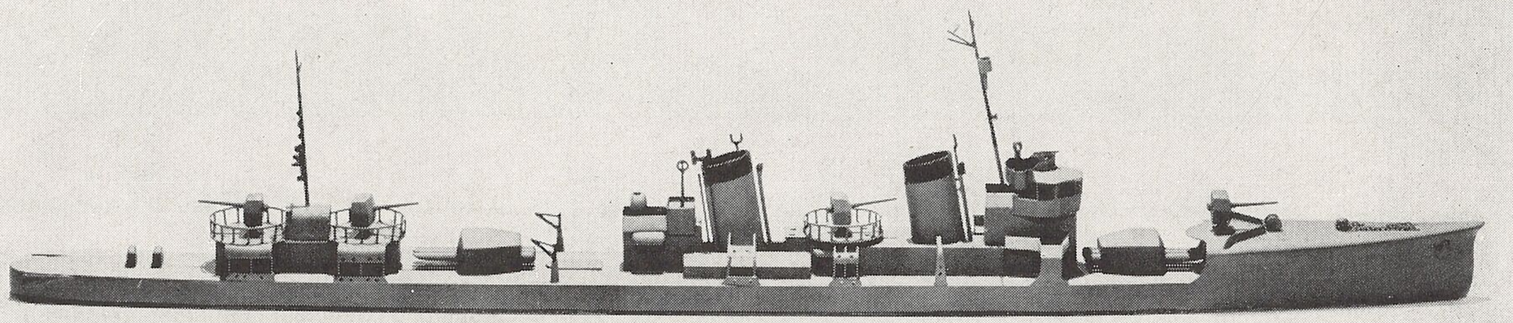
MOMI CLASS—ODD 4-22

WAKATAKE CLASS—ODD 23-29

AERIAL VIEWS

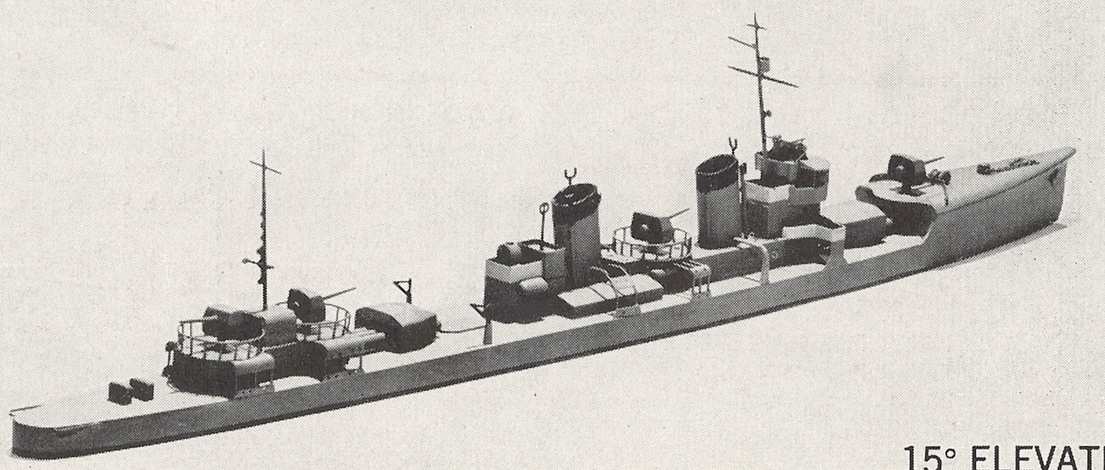
45°





90°

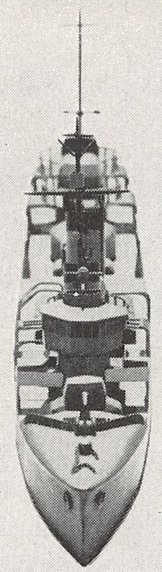
135°

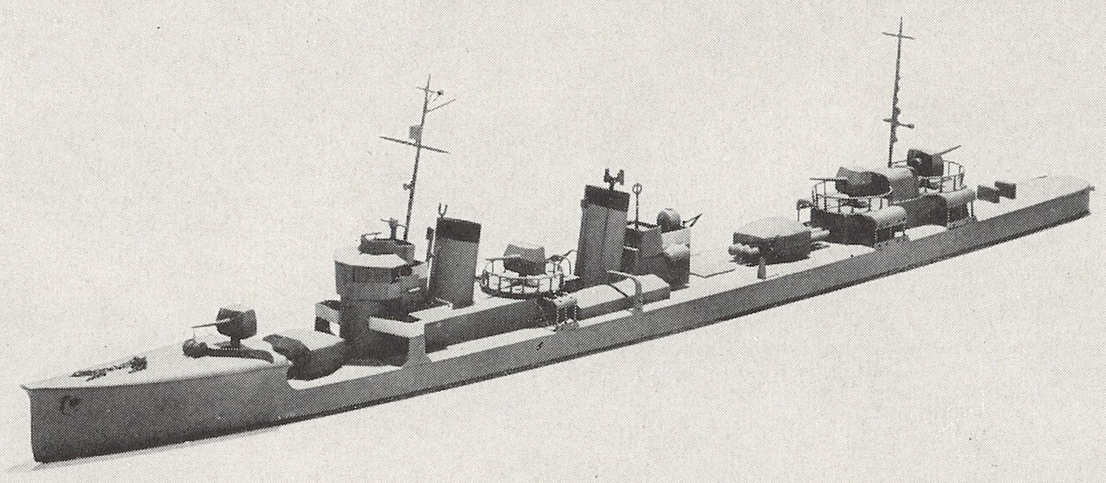


15° ELEVATION

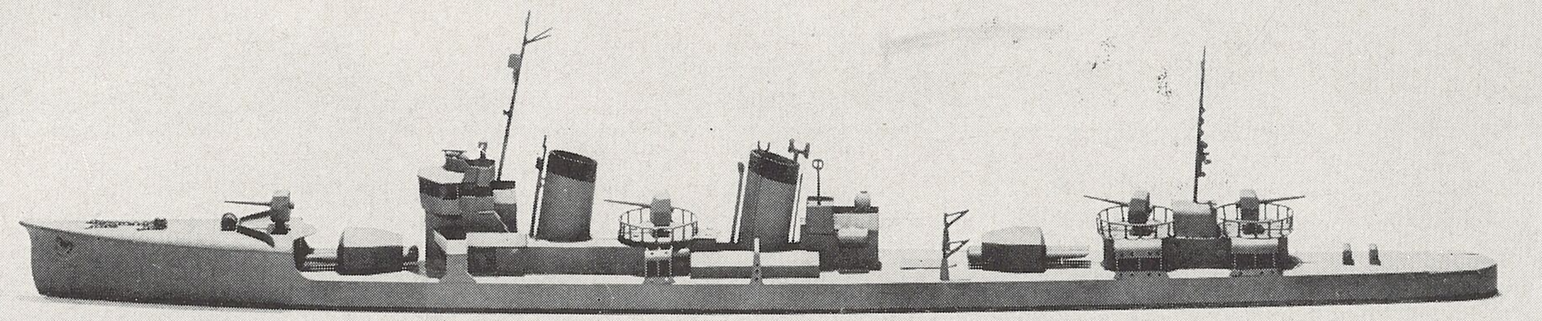
ONI 41-42

0°



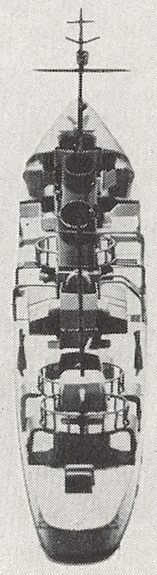


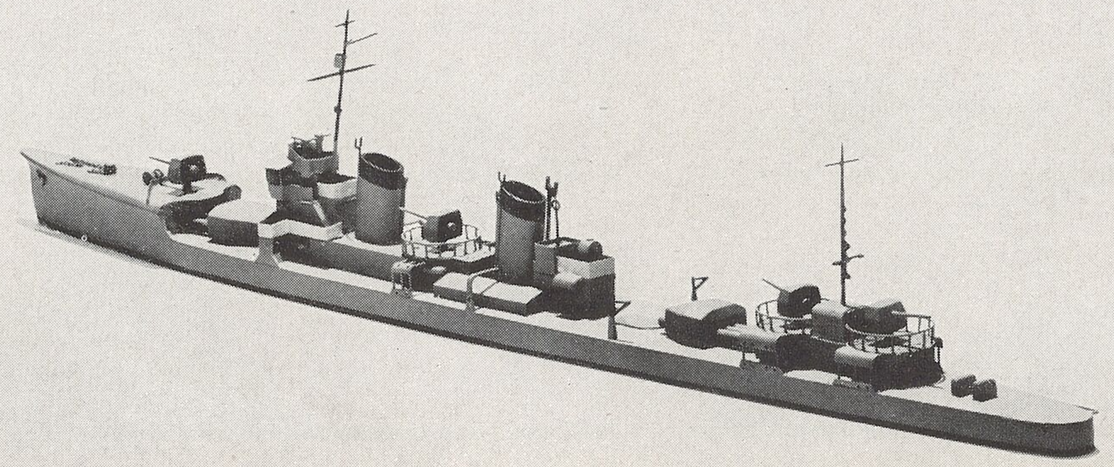
315°



270°

180°





225°

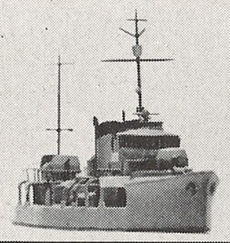
MUTSUKI CLASS—DD 25-36

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—FEBRUARY, 1943

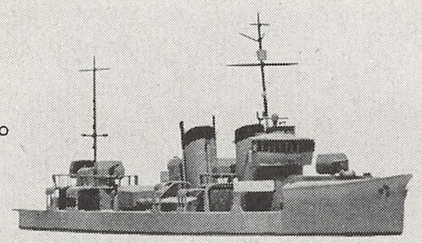
TARGET ANGLES

0°

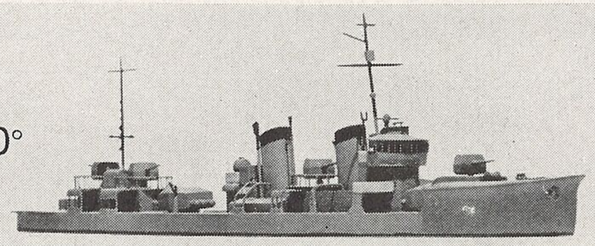
10°



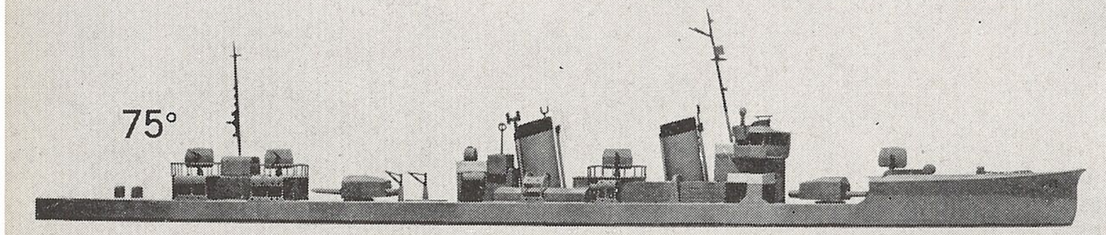
20°



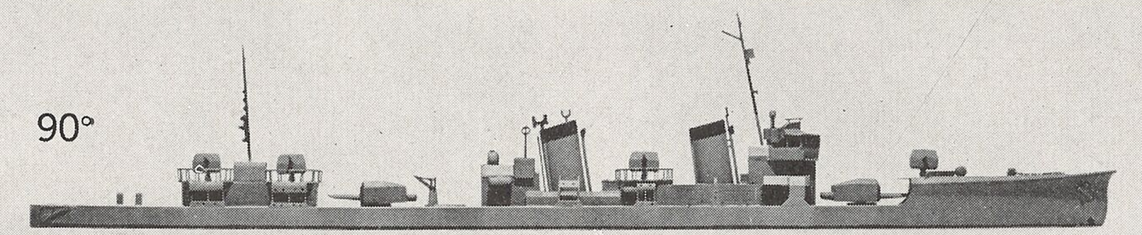
30°



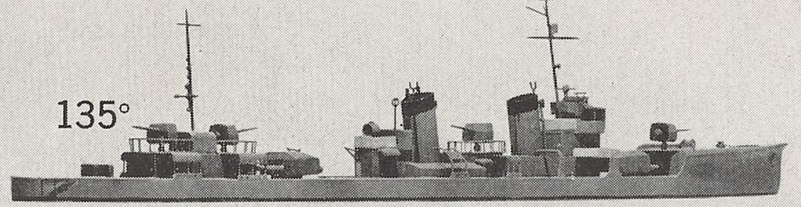
75°



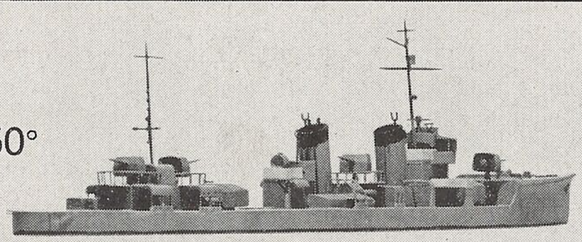
90°



135°



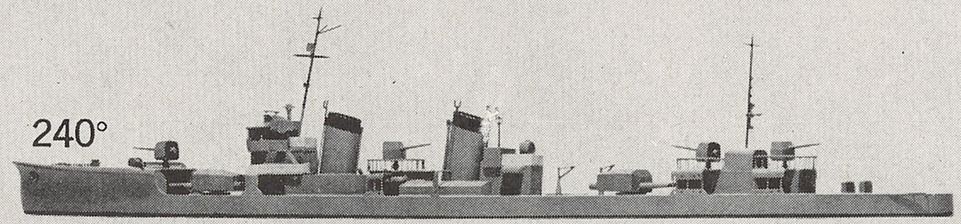
150°



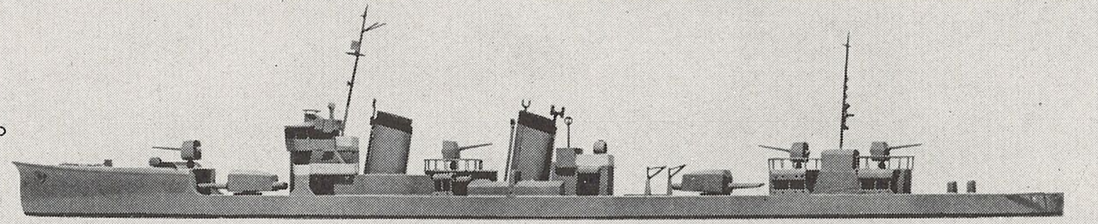
165°

180°

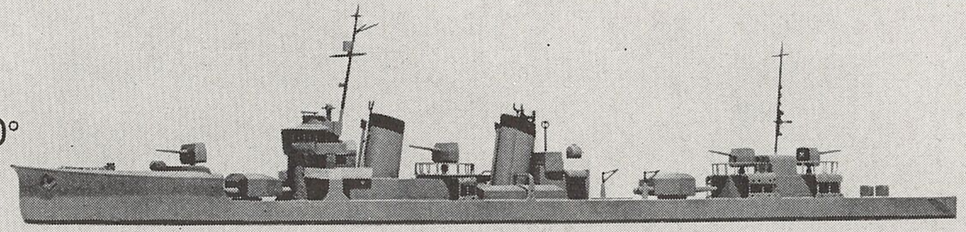
240°



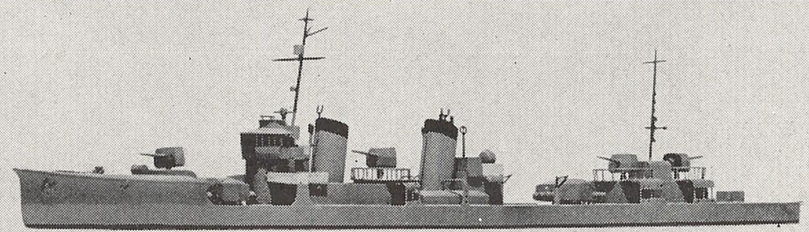
255°



300°



315°



ONI 41-42

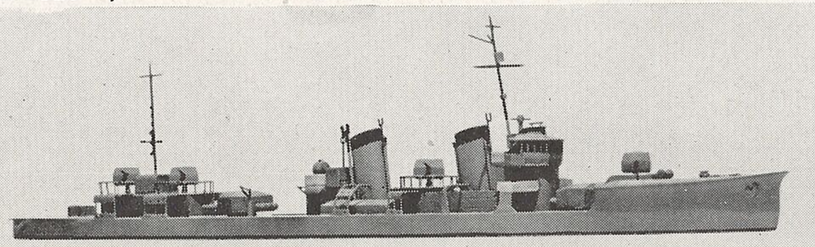
KNOTS	RPM
34	405-413
	375
	350
	325

KNOTS	RPM
	300
	275
	250
	225

KNOTS	RPM
	200
	175
	150
	125

KNOTS	RPM
	100
	75
	50
	25

45°



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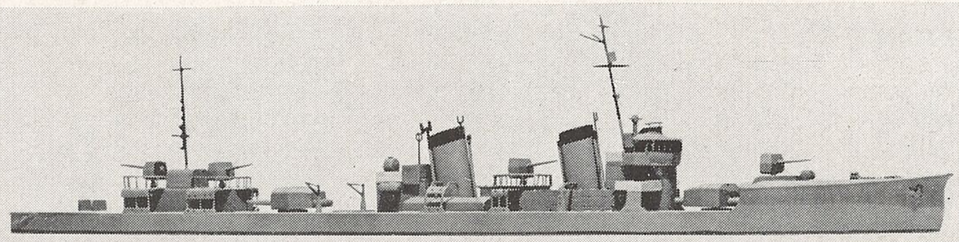
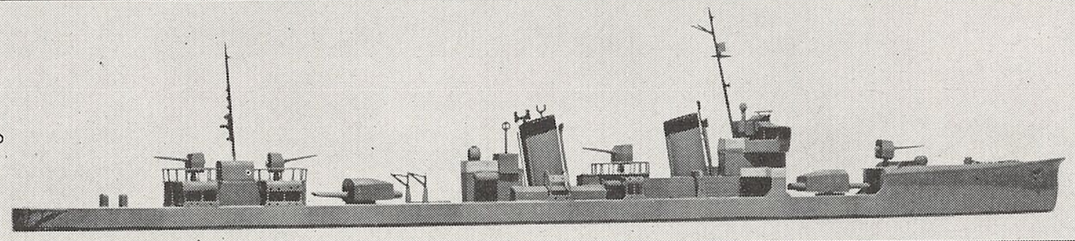
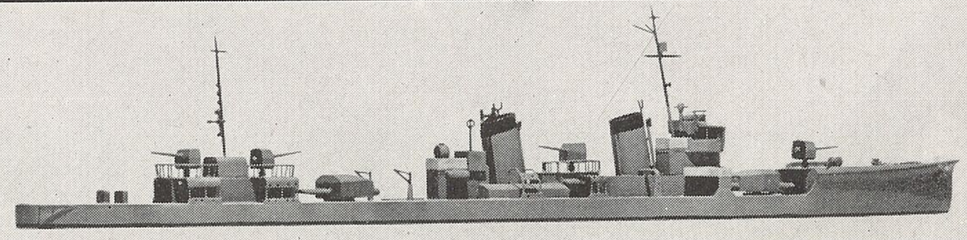


105°



120°



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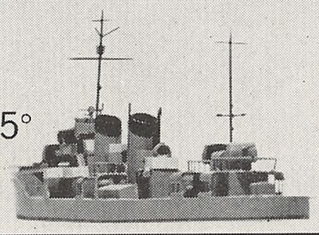
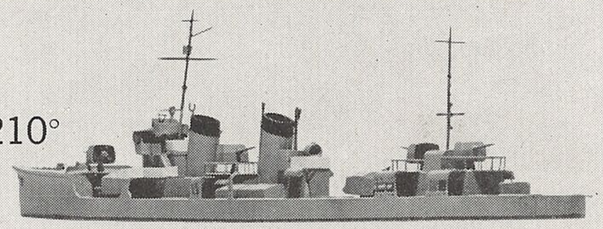
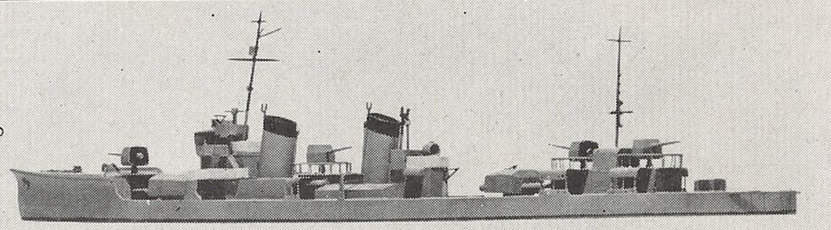


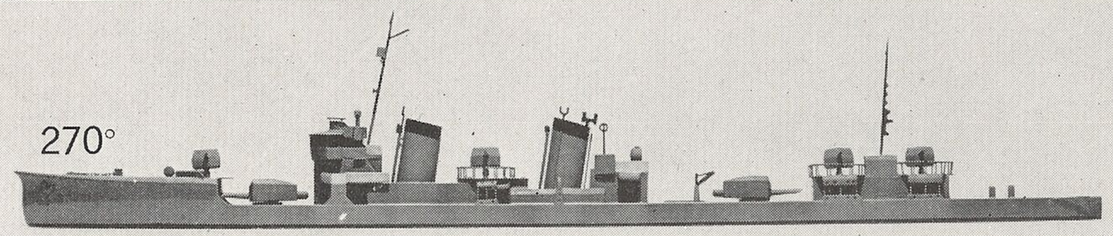
210°



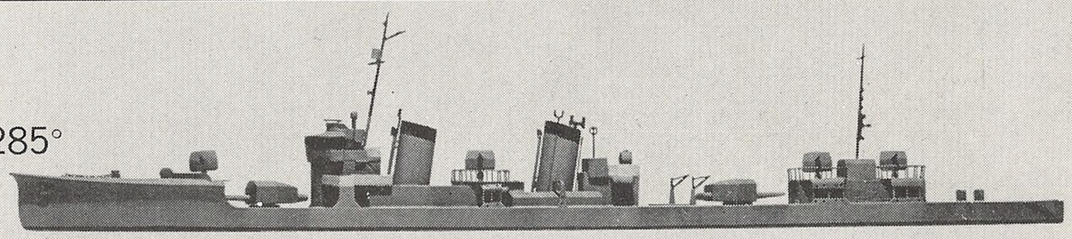
225°



270°



285°



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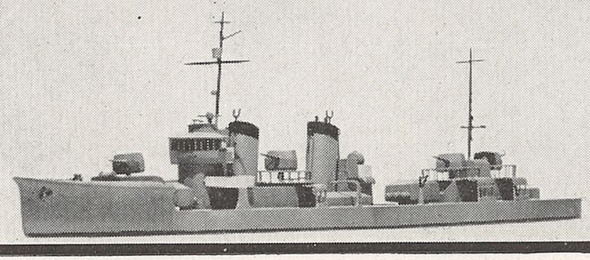

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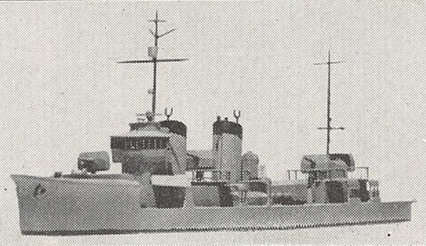

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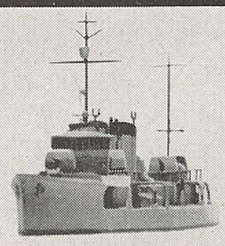
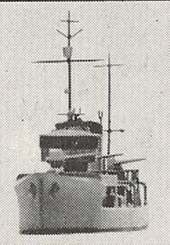


355°

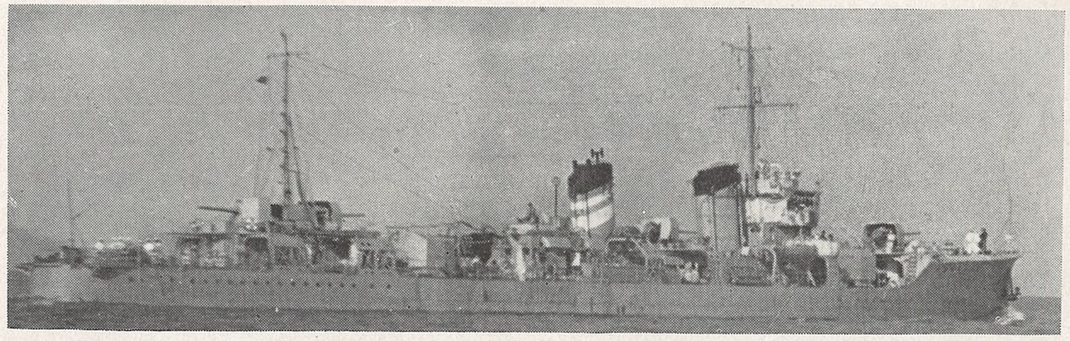


MUTSUKI CLASS—DD 25-36

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

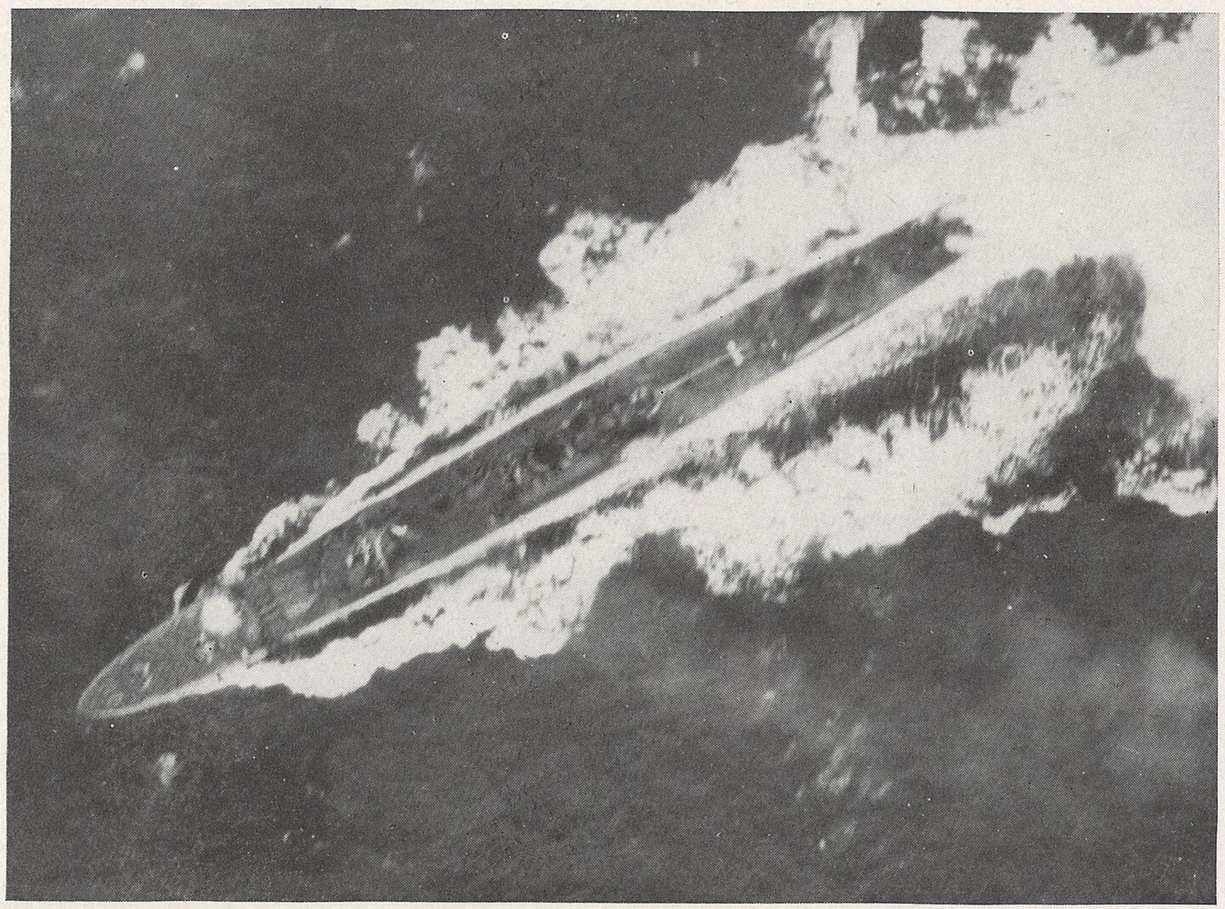
		COMPLETED
MUTSUKI—	DD 25	3/25/26
SATSUKI—	DD 26	11/15/25
KISARAGI—	DD 27	12/21/25
YAYOI—	DD 28	8/28/26
UZUKI—	DD 29	9/14/26
FUMITSUKI—	DD 30	7/ 3/26
KIKUTSUKI—	DD 31	11/20/26
MINATSUKI—	DD 32	3/22/27
NAGATSUKI—	DD 33	4/30/27
MIKATSUKI—	DD 34	5/ 7/27
MOCHITSUKI—	DD 35	10/31/27
YUZUKI—	DD 36	7/25/27

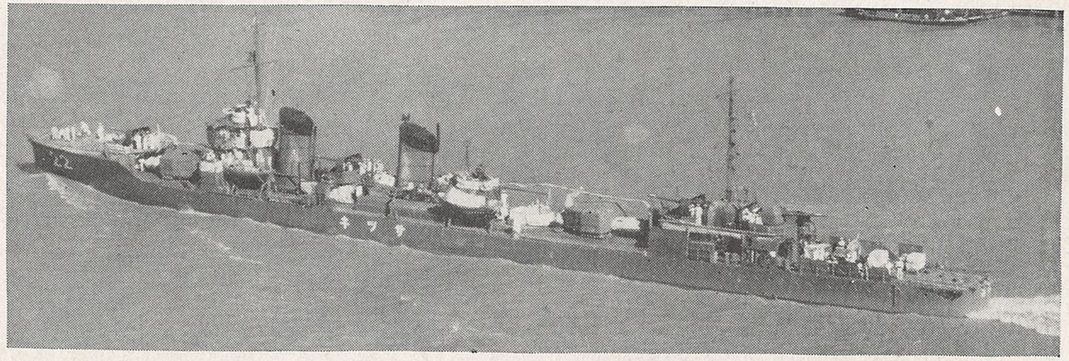
		COMPLETED
KAMIKAZE—	DD 16	28/12/22
ASAKAZE—	DD 17	16/ 6/23
HARUKAZE—	DD 18	31/ 5/23
MATSUKAZE—	DD 19	5/ 4/24
ASANAGI—	DD 20	29/12/24
HATAKAZE—	DD 21	30/ 8/24
OITE—	DD 22	30/10/25
HAYATE—	DD 23	21/12/25
YUNAGI—	DD 24	24/ 4/25



↑ NAGATSUKI 1/15/41

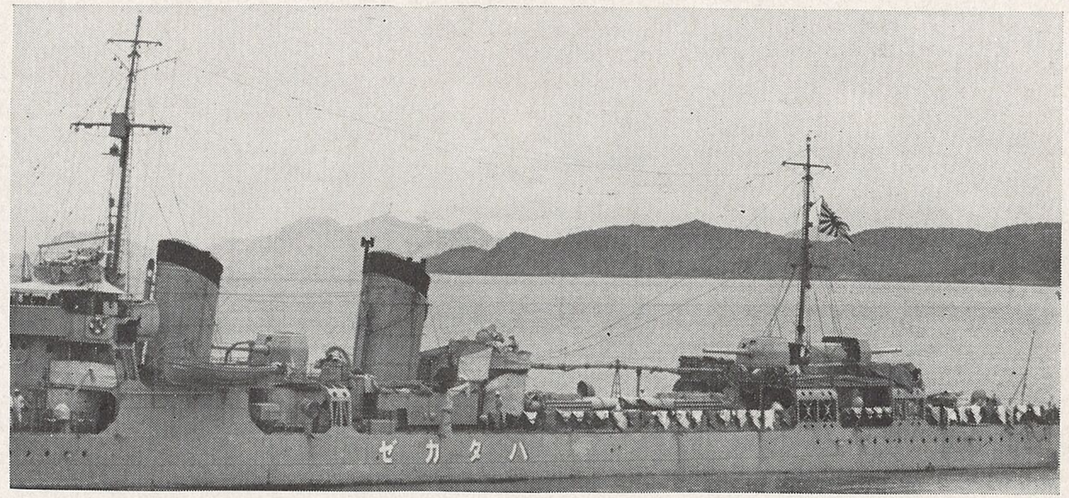
SATSUKI 8/18/37 ↓





← 9/11/42

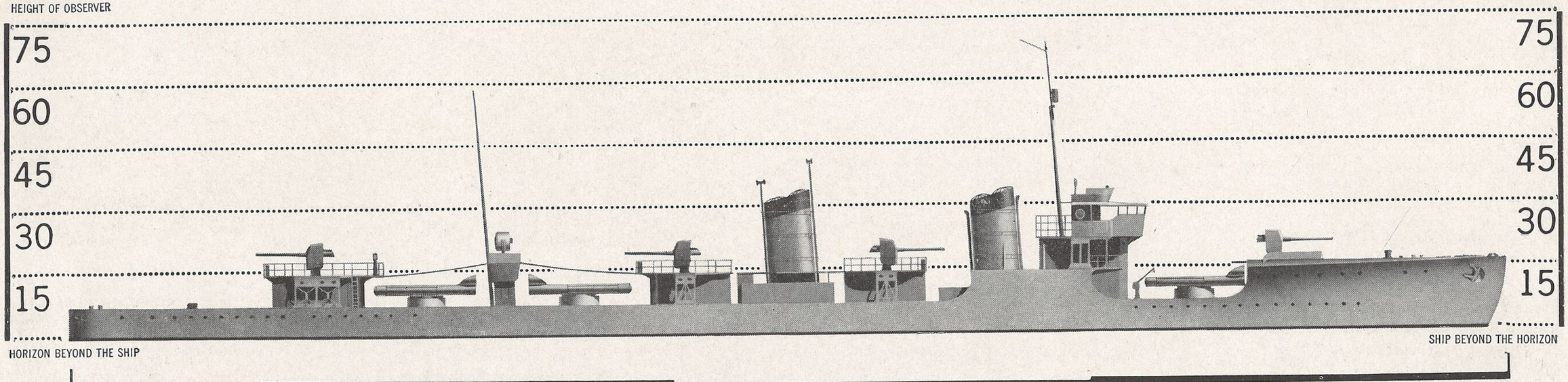
HATAKAZE (KAMIKAZE CLASS) 5/40 ↓



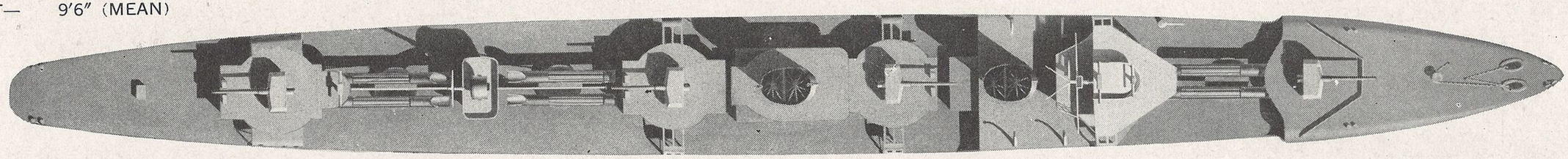
ONI 41-42 RESTRICTED

MINEKAZE CLASS—DD 1-15

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



LENGTH—336'6" OA
BEAM— 29'3"
DRAFT— 9'6" (MEAN)



DISPLACEMENT—1215 TONS (STANDARD) 1345 (NORMAL)

ARMAMENT

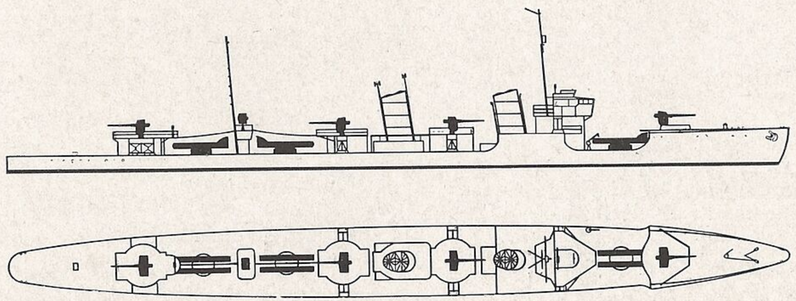
	MAX. ELEV.	RANGE (HORIZONTAL)
4-4.7" SHIELDS	45°	19,000 YDS

2-1" AA
6-21" TORPEDO TUBES 10 TORPEDOES CARRIED
50-MINES; 14?-DEPTH CHARGES
2 ?-30" SEARCHLIGHTS
FITTED FOR MINESWEEPING

PROPULSION

MACHINERY— 4 PARSONS
BOILERS— 4 KAMPON FUEL— OIL 315 TONS
DESIGNED HP—38,500 DESIGNED SPEED—34 KNOTS
ENDURANCE— 4,100 @ 15 KNOTS —900 @ 34 KNOTS

PROTECTION—SPLINTER PROTECTION FOR BRIDGE AND GUNS



15 MINEKAZE CLASS

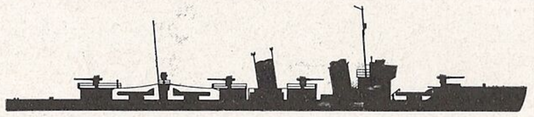
MINEKAZE CLASS DD—1-15

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

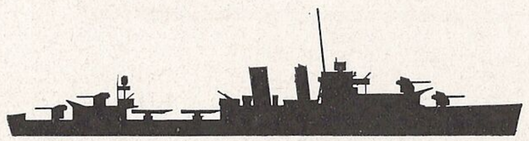
PROFILE

MAY BE DISTINGUISHED FROM OTHER JAP DD's BY MAINMAST BETWEEN AFT TUBE NESTS.

MISTAKEN IDENTITY



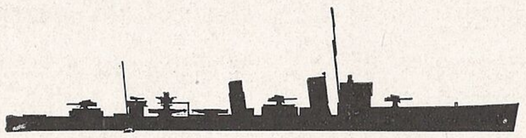
MINEKAZE CLASS DD—1-15



FARRAGUT—DD (U.S.)

AM 1-6 (JAPAN)

RAVEN—AM (U.S.)



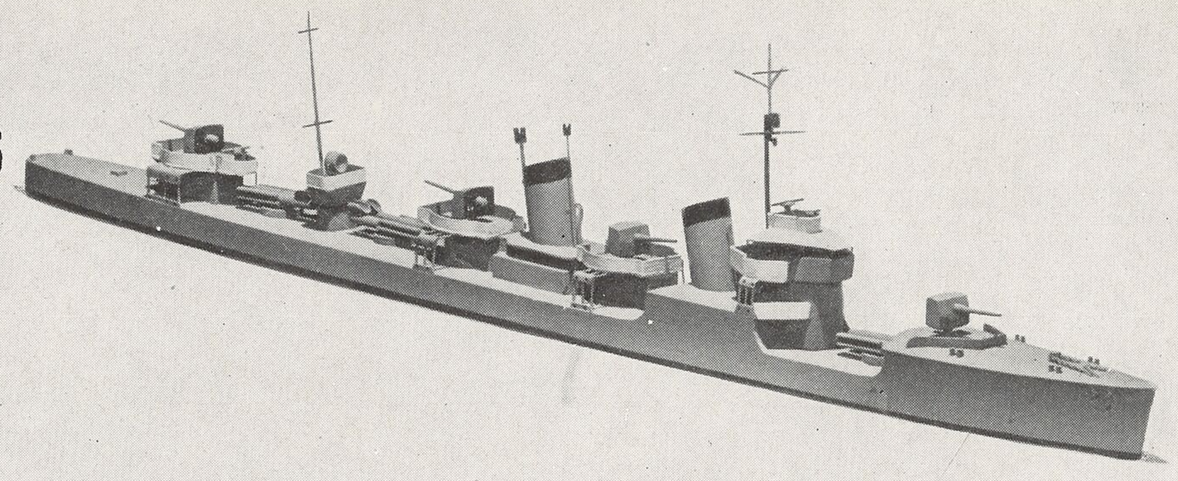
BRITISH 2-STACKER DD

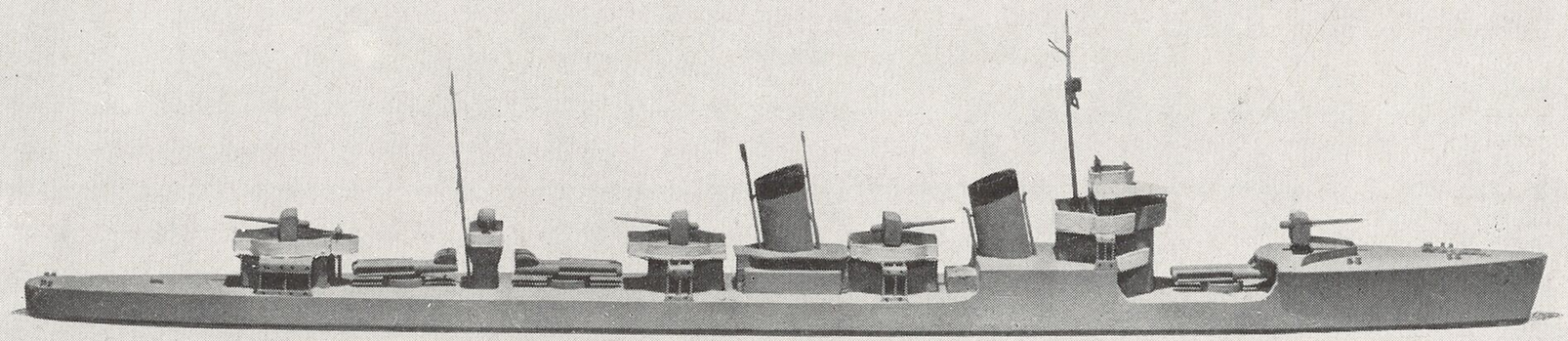
ALSO—

LA RIOJA—DD (ARGENTINA)
ALDEA—DD (CHILE)
ANTIOQUIA—DD (COLOMBIA)

AERIAL VIEWS

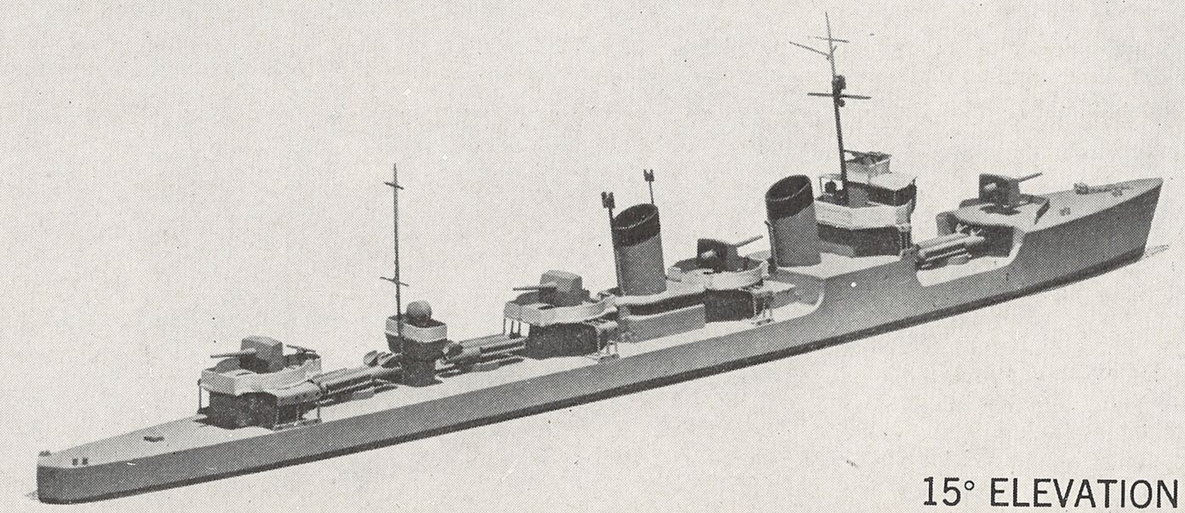
45°





90°

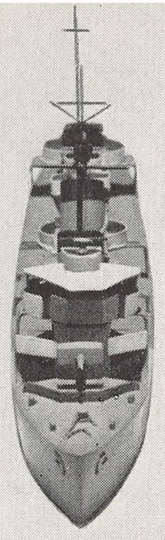
135°



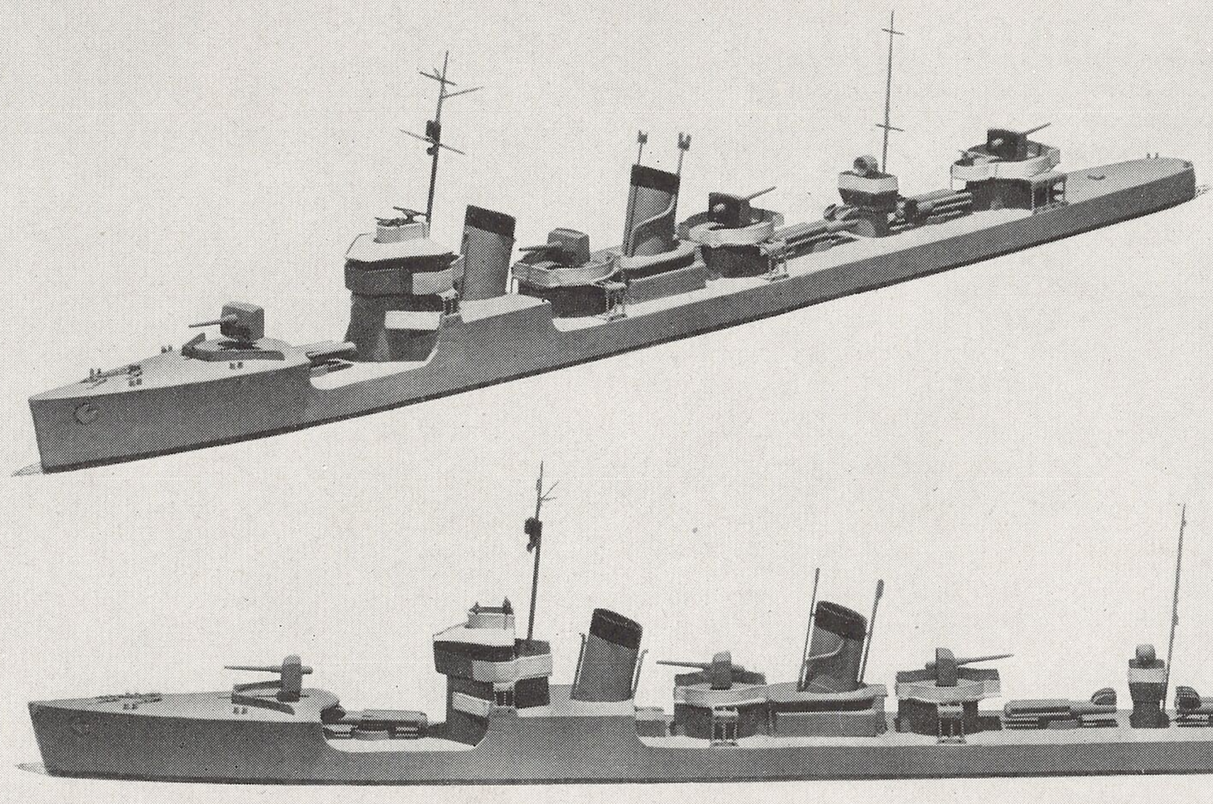
15° ELEVATION

ONI 41-42

0°

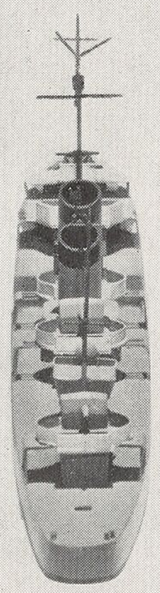


315°

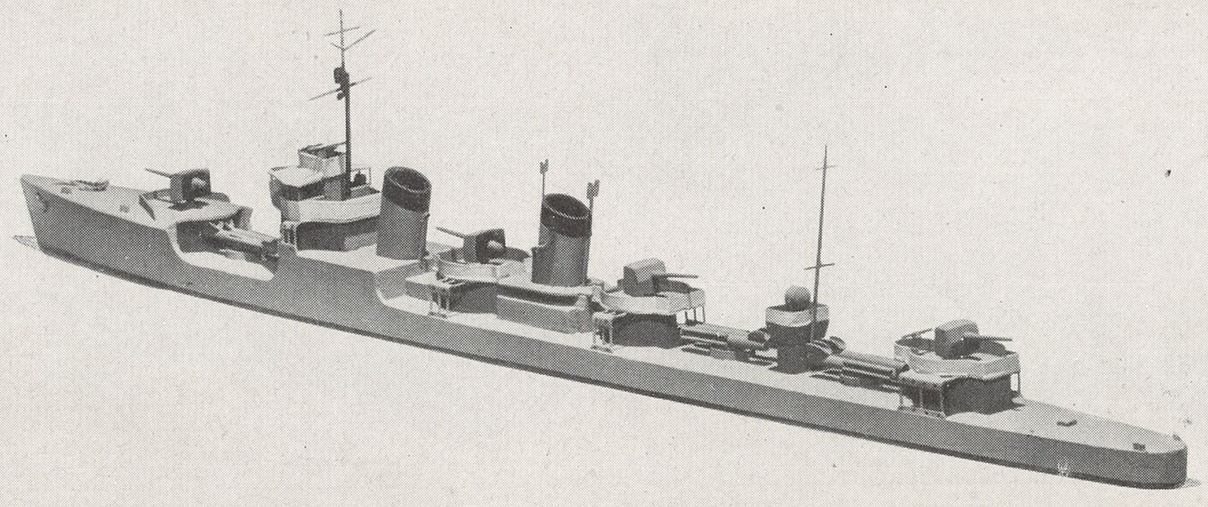


270°

180°



255°

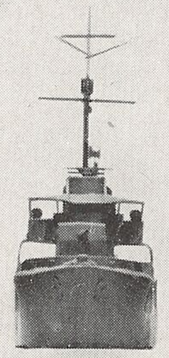


MINEKAZE CLASS DD 1-15

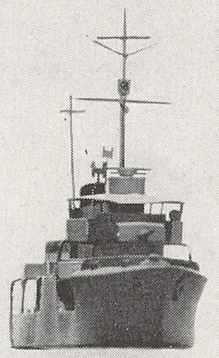
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943 RESTRICTED

TARGET ANGLES

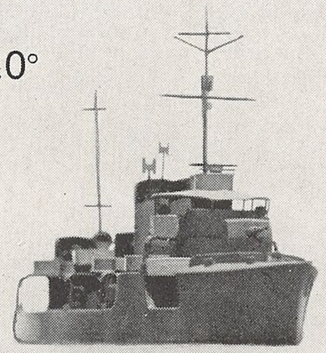
0°



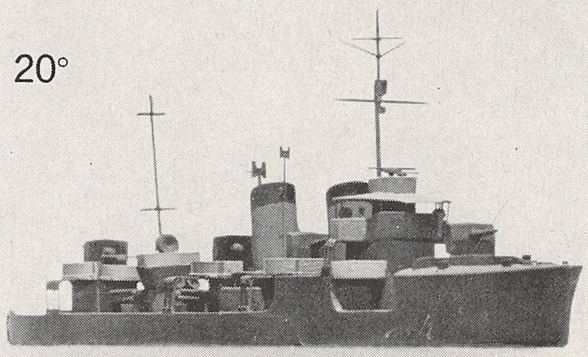
5°



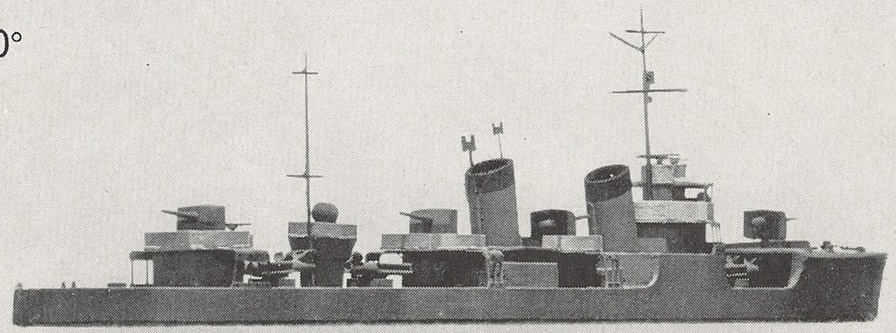
10°



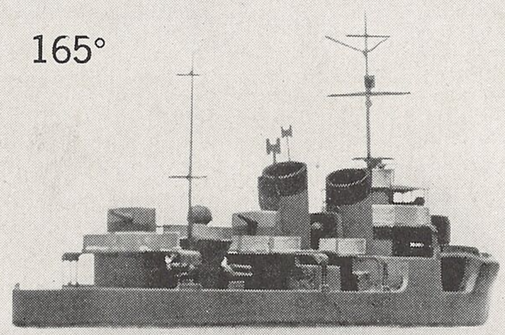
20°



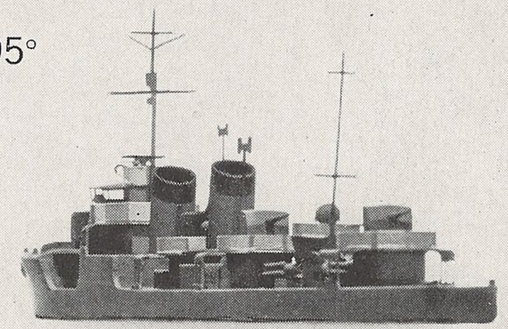
150°



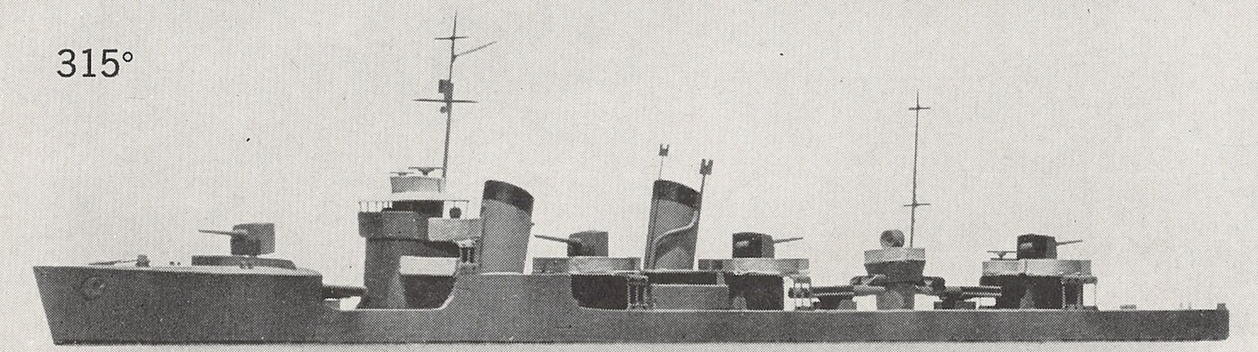
165°



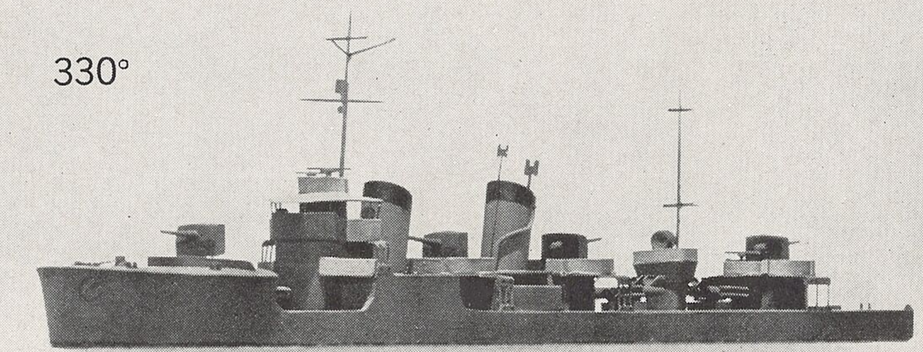
195°



315°

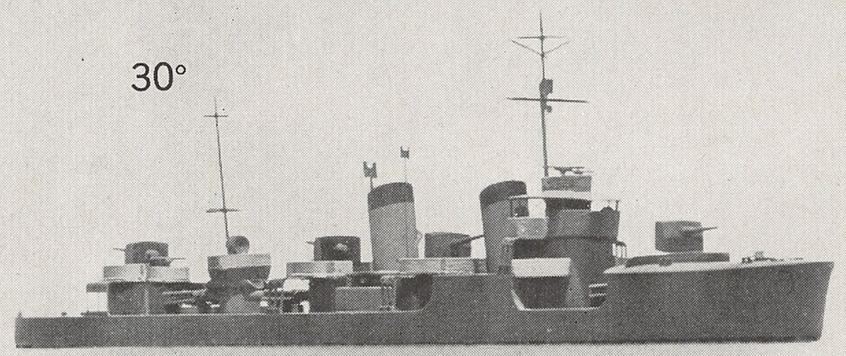


330°

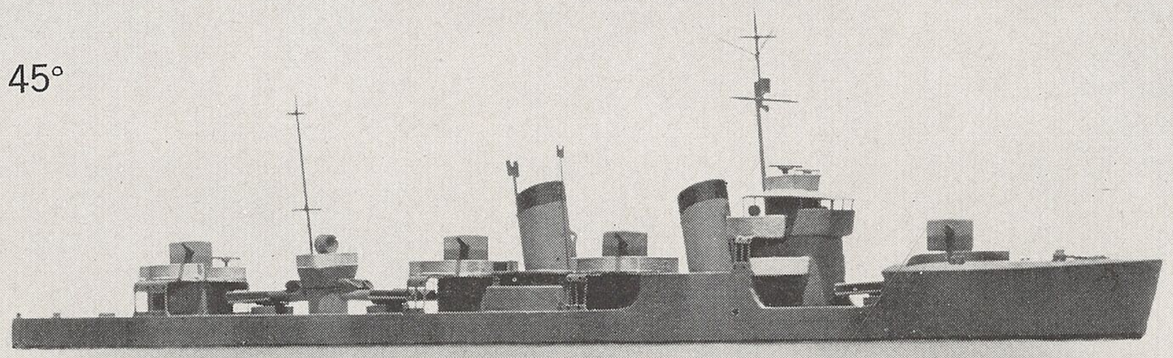


KNOTS	RPM
34	417
	375
	350
	325
	300
	275
	250
	225
	200
	175
	150
	125
	100
	75
	50
	25

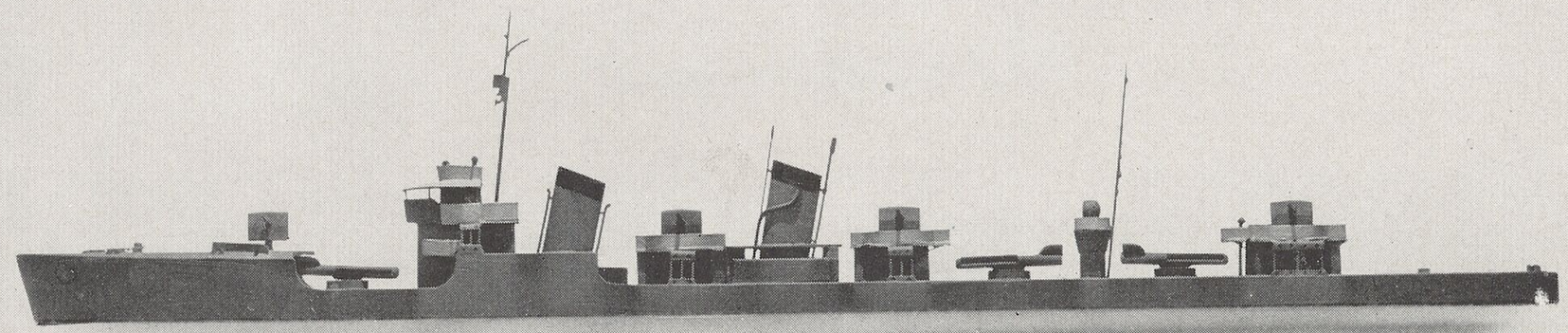
30°



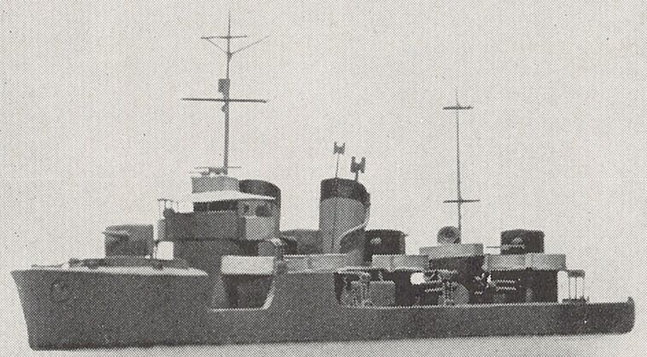
45°



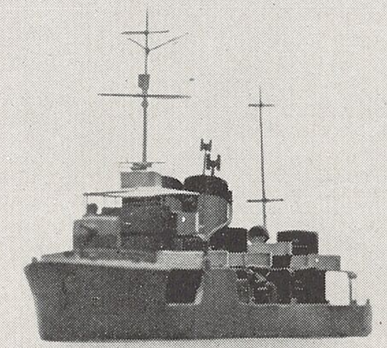
270°



340°



350°

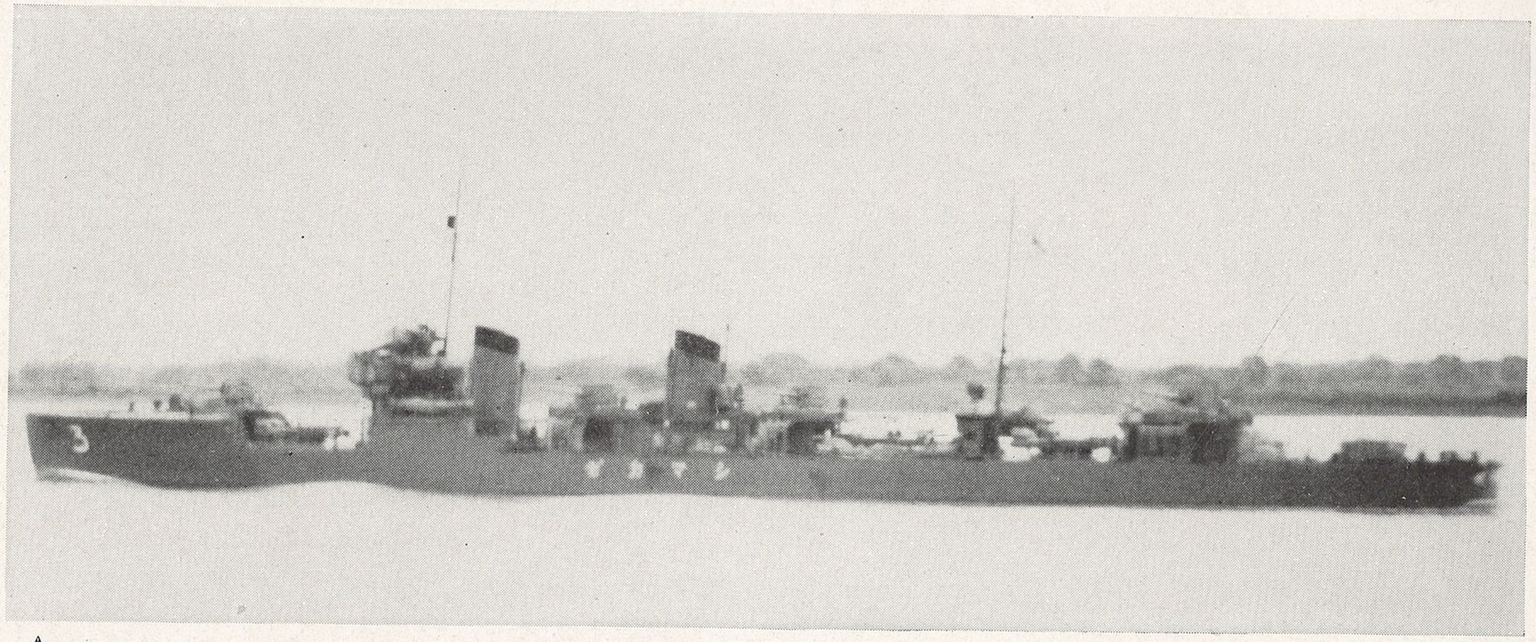


355°

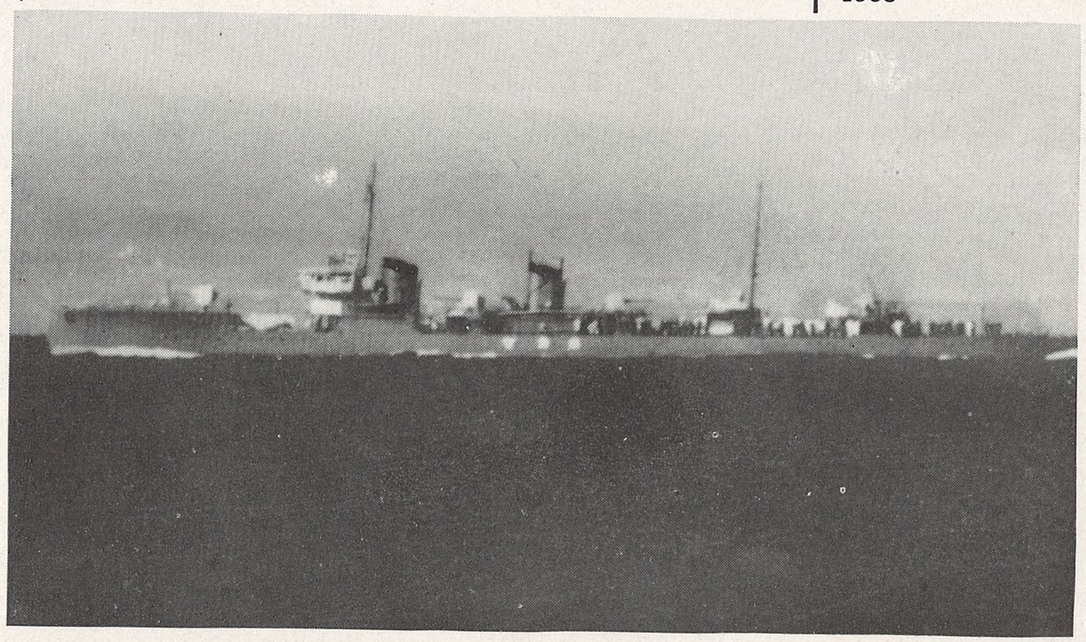
MINEKAZE CLASS—DD 1-15

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

	COMPLETED
MINEKAZE DD-1	1920
OKIKAZE DD-2	1920
SHIMAKAZE DD-3	1920
SAWAKAZE DD-4	1920
HAKAZE DD-5	1920
YAKAZE DD-6	1920
AKIKAZE DD-7	1921
YUKAZE DD-8	1921
HOKAZE DD-9	1921
SHIOKAZE DD-10	1921
TACHIKAZE DD-11	1921
NADAKAZE DD-12	1921
NAMIKAZE DD-13	1922
NUMAKAZE DD-14	1922
NOKAZE DD-15	1922

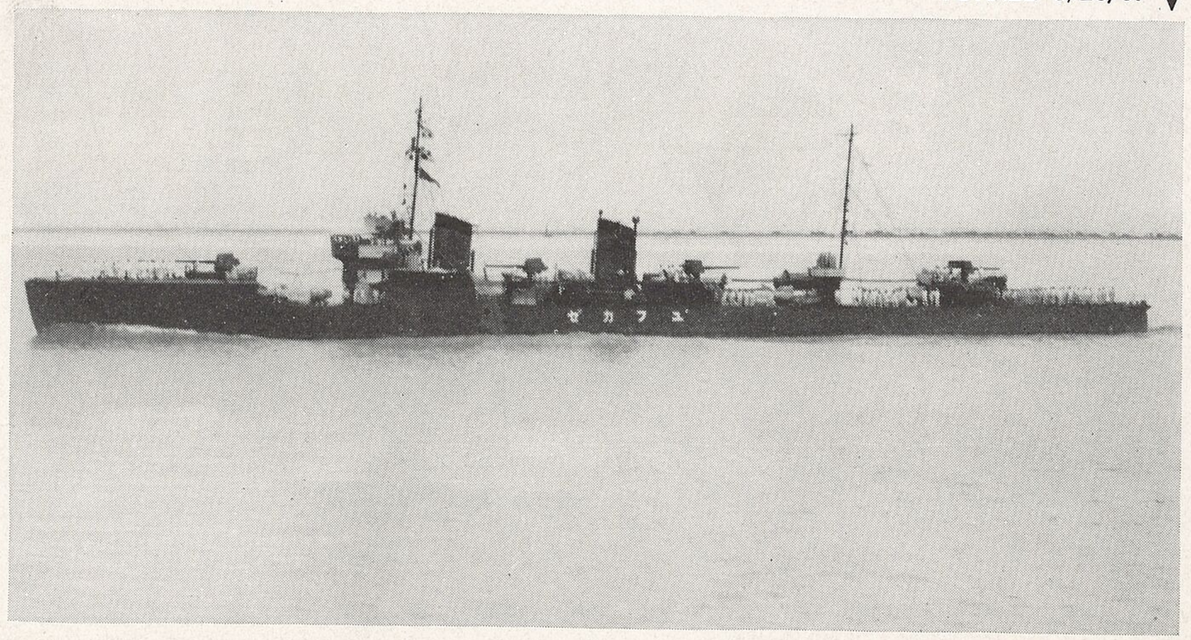


↓ HOKAZE—1939



↑ 1938

YUKAZE 8/26/37 ↓

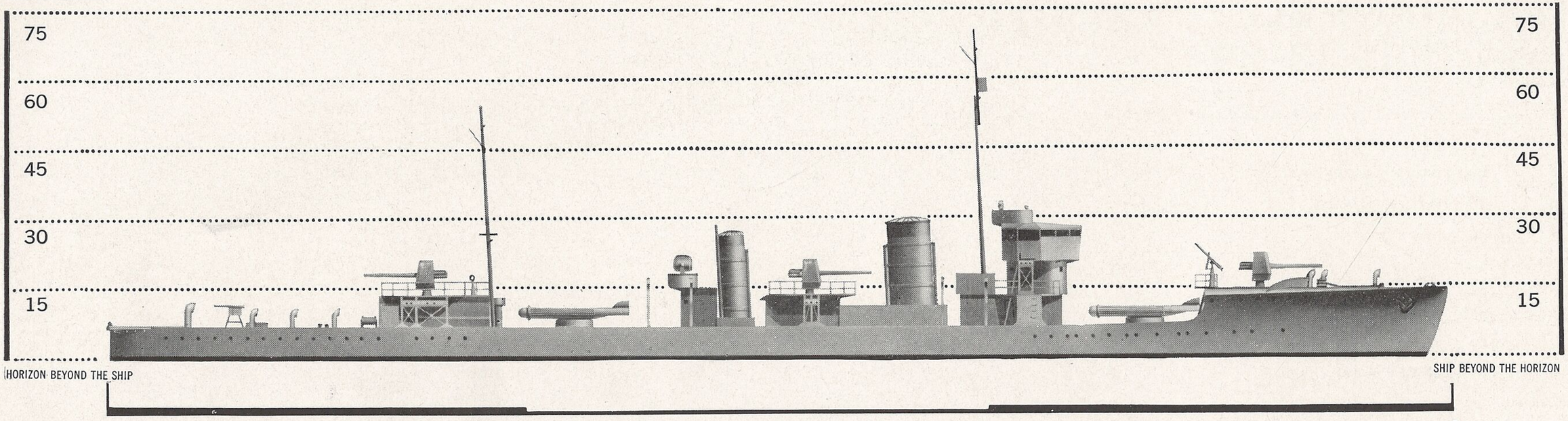


ONI 41-42 RESTRICTED

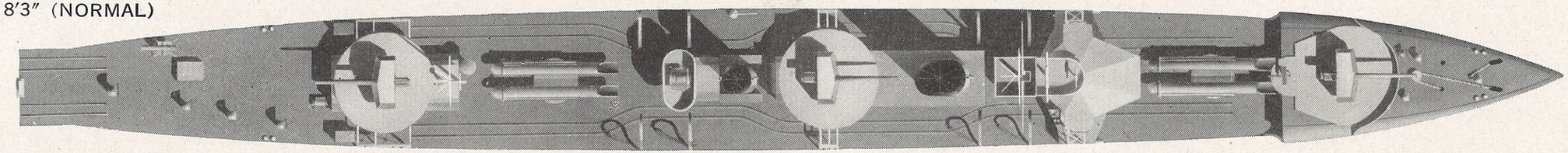
MOMI CLASS—ODD-4-22
IDENTICAL IN APPEARANCE

WAKATAKE CLASS—ODD-23-29

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



LENGTH—287′ OA; 282′ WL
BEAM— 26′6″
DRAFT— 8′3″ (NORMAL)



DISPLACEMENT—770 (M)—820 (W) TONS STANDARD

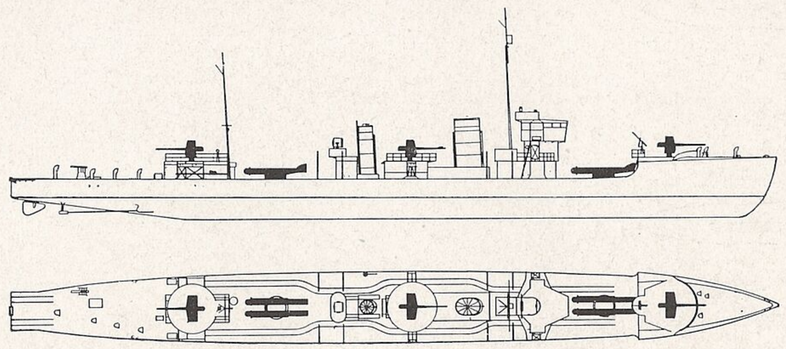
ARMAMENT

MAX. ELEV.	MAX. RANGE (HORIZONTAL)
40°	19,000 YARDS

3–4″.7 (45)
2–AAMG
4–21″ TORPEDO TUBES
10 DEPTH CHARGES
SOME HAVE BEEN CONVERTED FOR MINELAYING

PROPULSION

MACHINERY— PARSONS GEARED TURBINE
BOILERS— 3 KAMPON
FUEL— OIL —275 TONS
DESIGNED HP—21,500
MAX. SPEED— 31.5 KNOTS



7 WAKATAKE CLASS—ODD-23-29

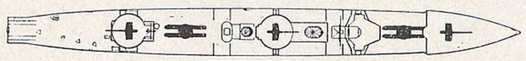
19 MOMI CLASS—ODD-4-22

WAKATAKE CL.

ODD-23-29

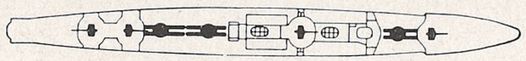
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION
AND CHARACTERISTICS SECTION—AUGUST, 1943

MISTAKEN IDENTITY—
AERIAL VIEWS

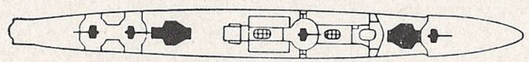


WAKATAKE CLASS—ODD 23-29
MOMI CLASS —ODD 4-22

MINEKAZE CLASS—DD 1-15



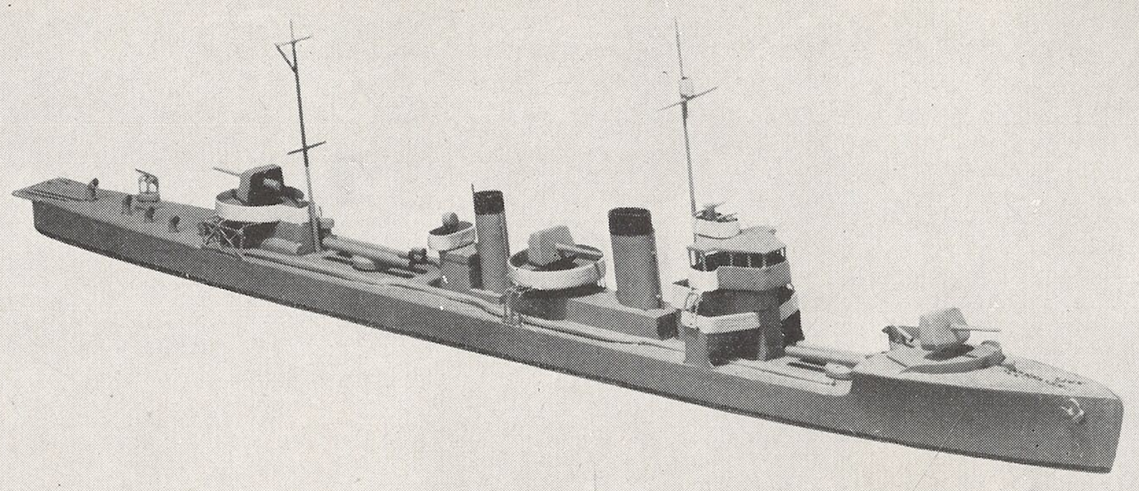
KAMIKAZE CLASS—DD 16-24

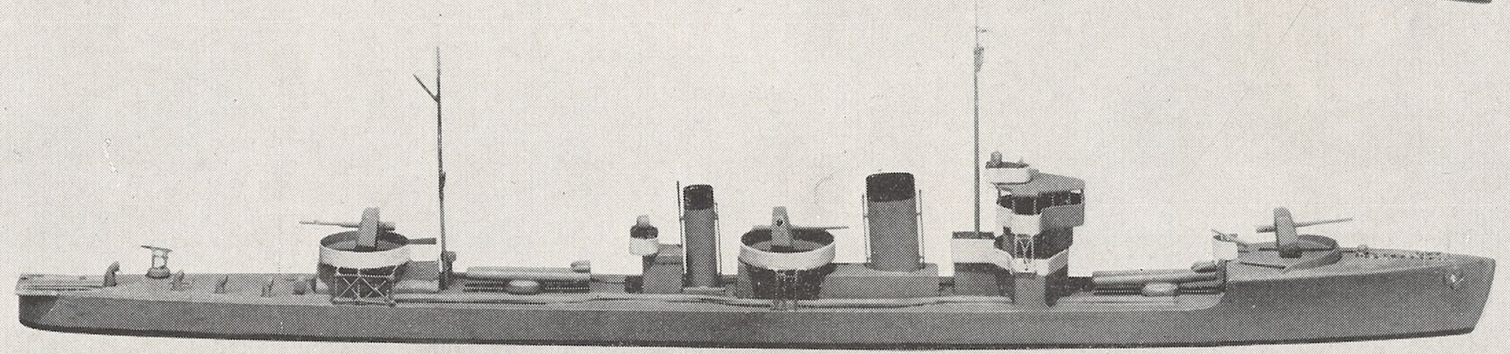


MUTSUKI CLASS—DD 25-36

AERIAL VIEWS

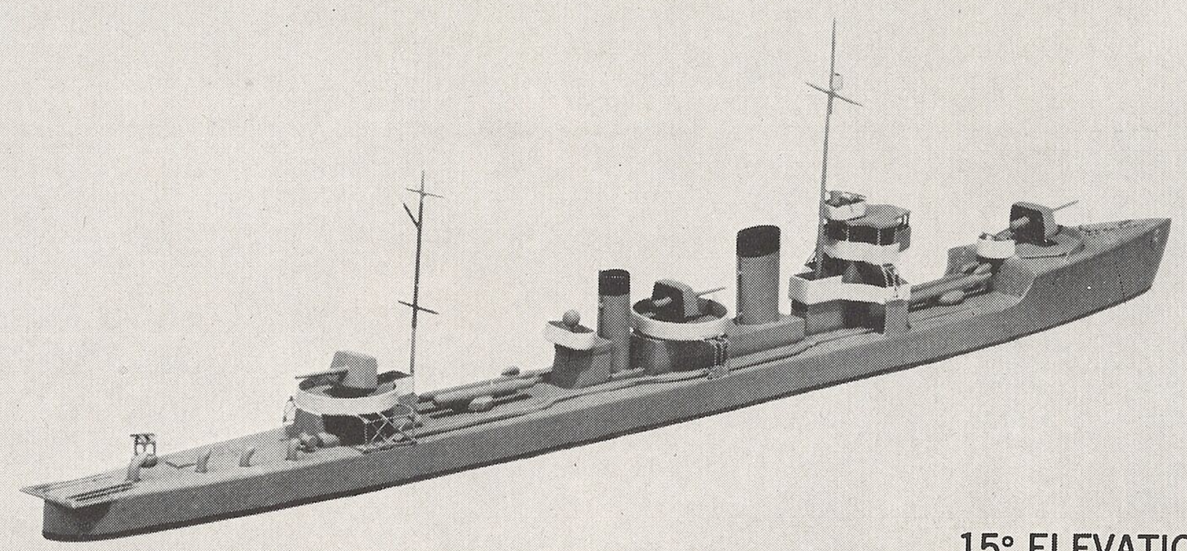
45°





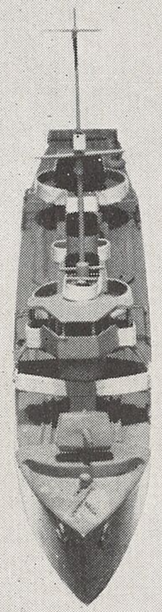
90°

135°

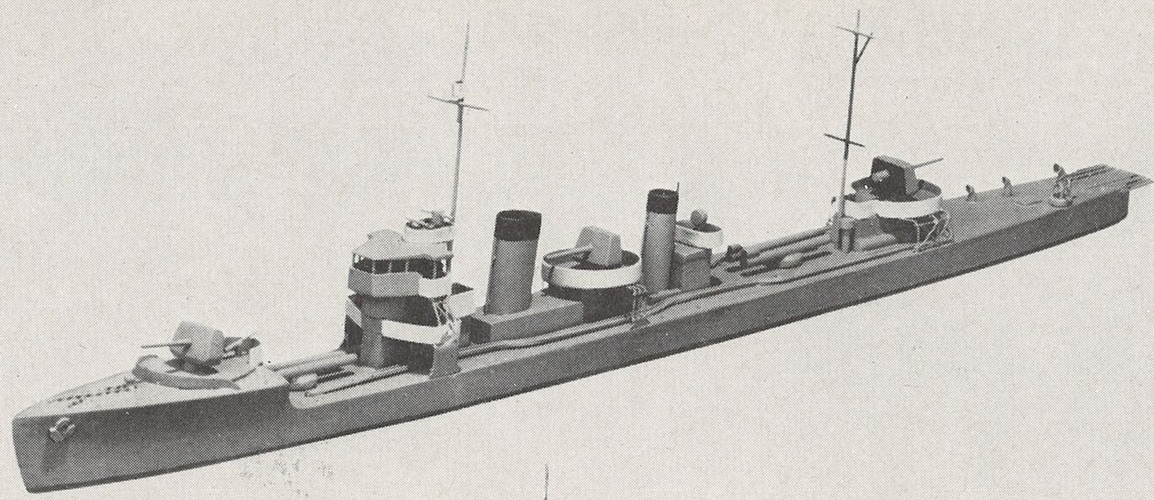


15° ELEVATION

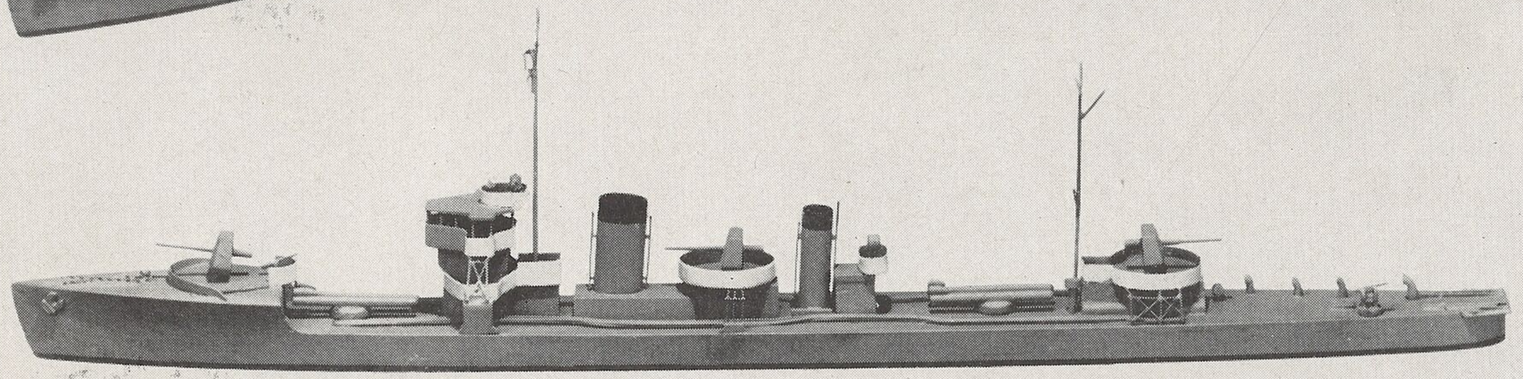
0°



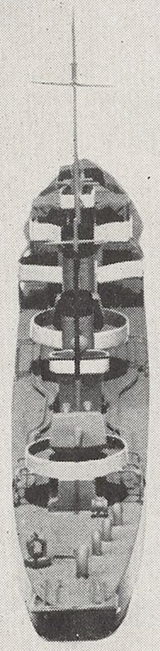
315°



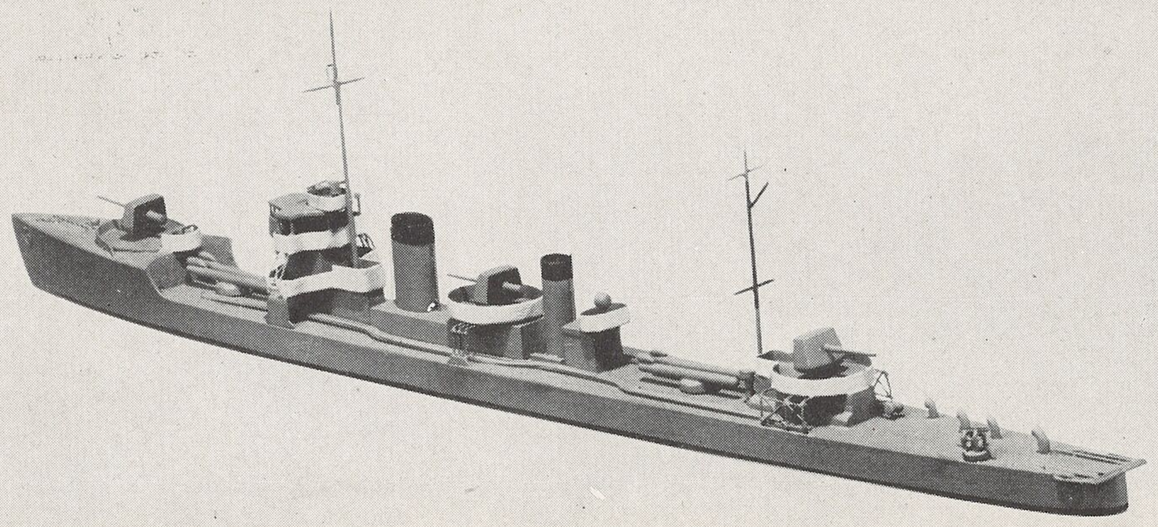
270°



180°



225°

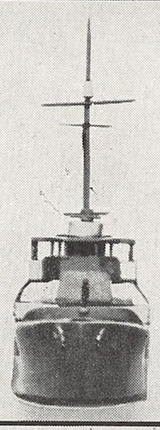


WAKATAKE CLASS—ODD-23-29

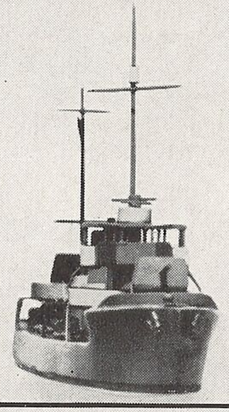
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

TARGET ANGLES

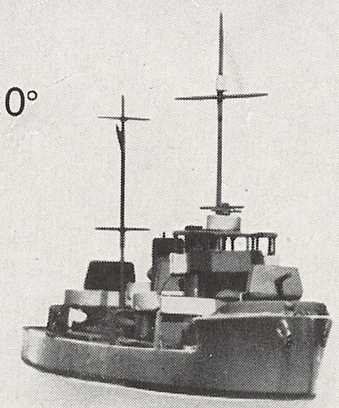
0°



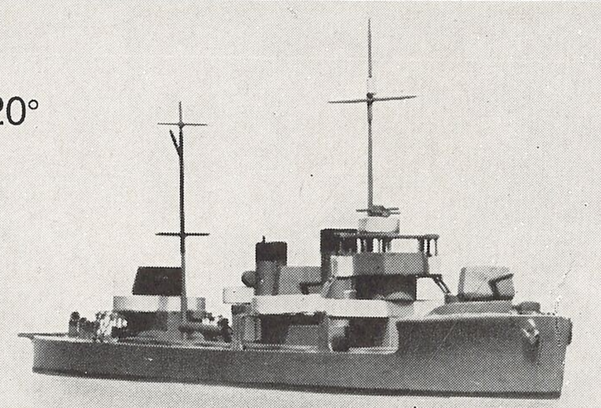
5°



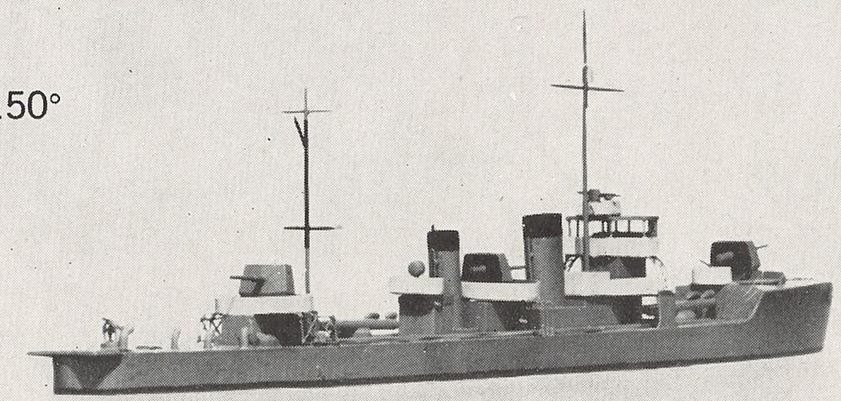
10°



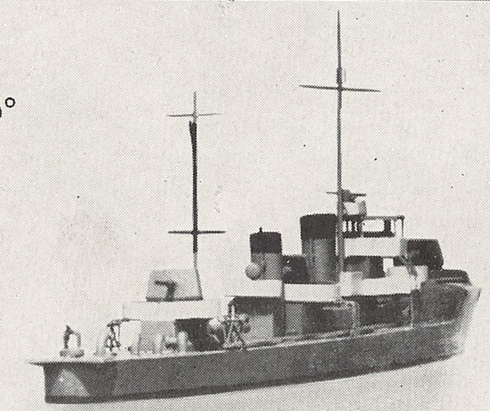
20°



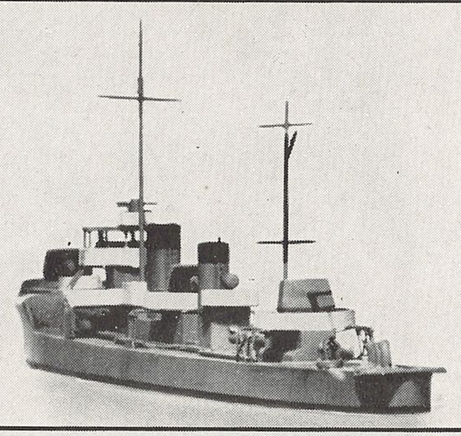
150°



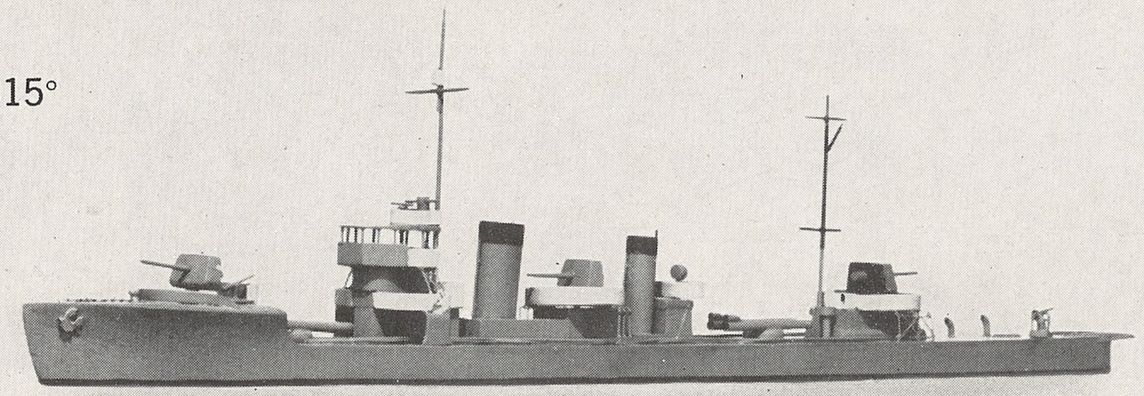
165°



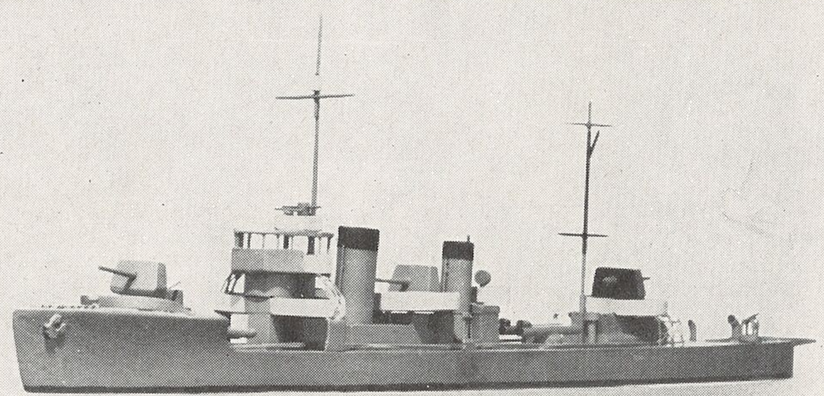
195°



315°



330°



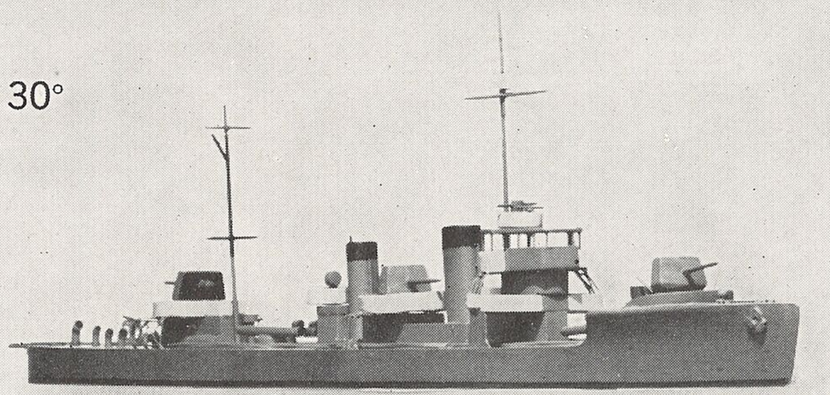
KNOTS	RPM
	400
	375
	350
	325

KNOTS	RPM
	300
	275
	250
	225

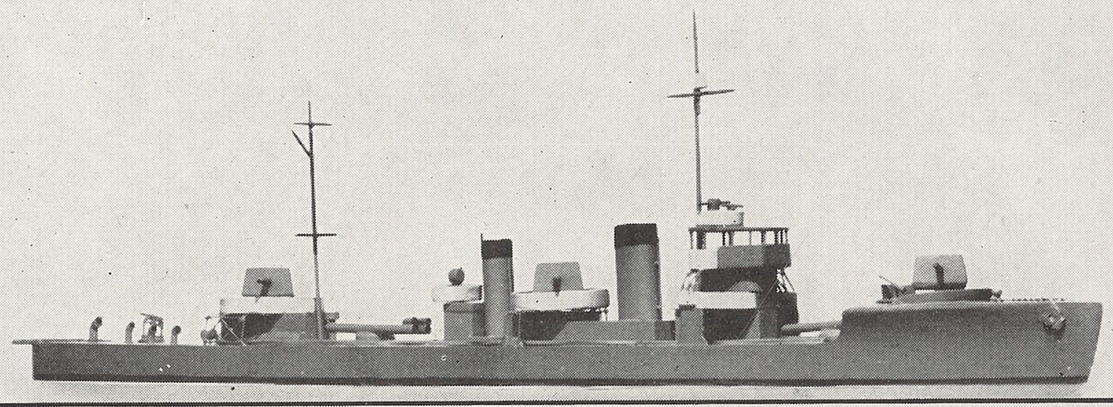
KNOTS	RPM
	200
	175
	150
	125

KNOTS	RPM
	100
	75
	50
	25

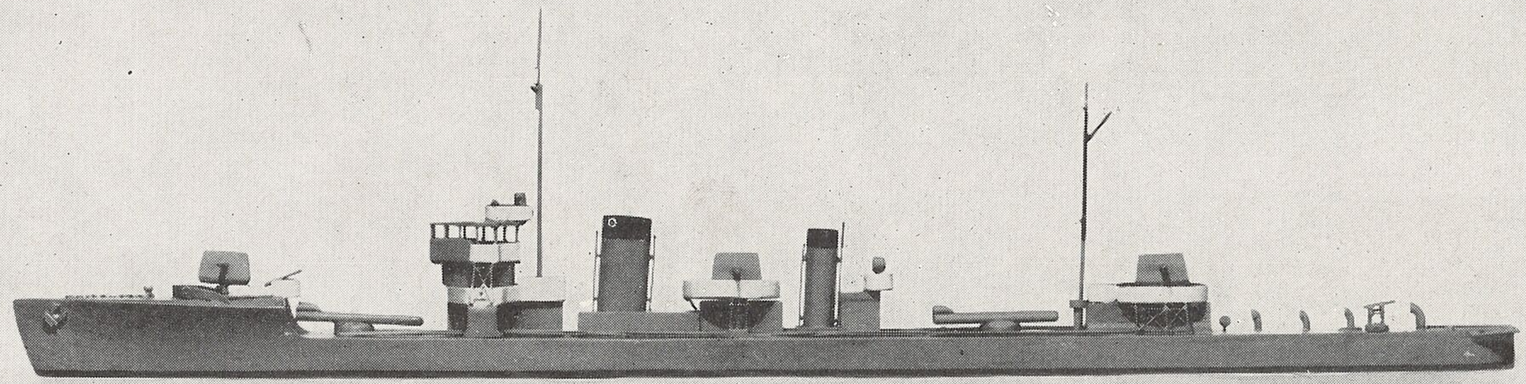
30°



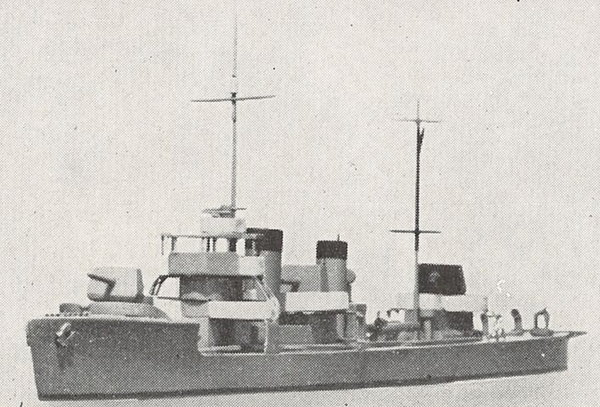
45°



270°

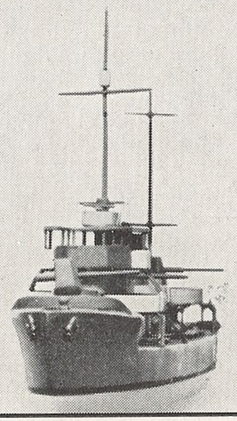


340°



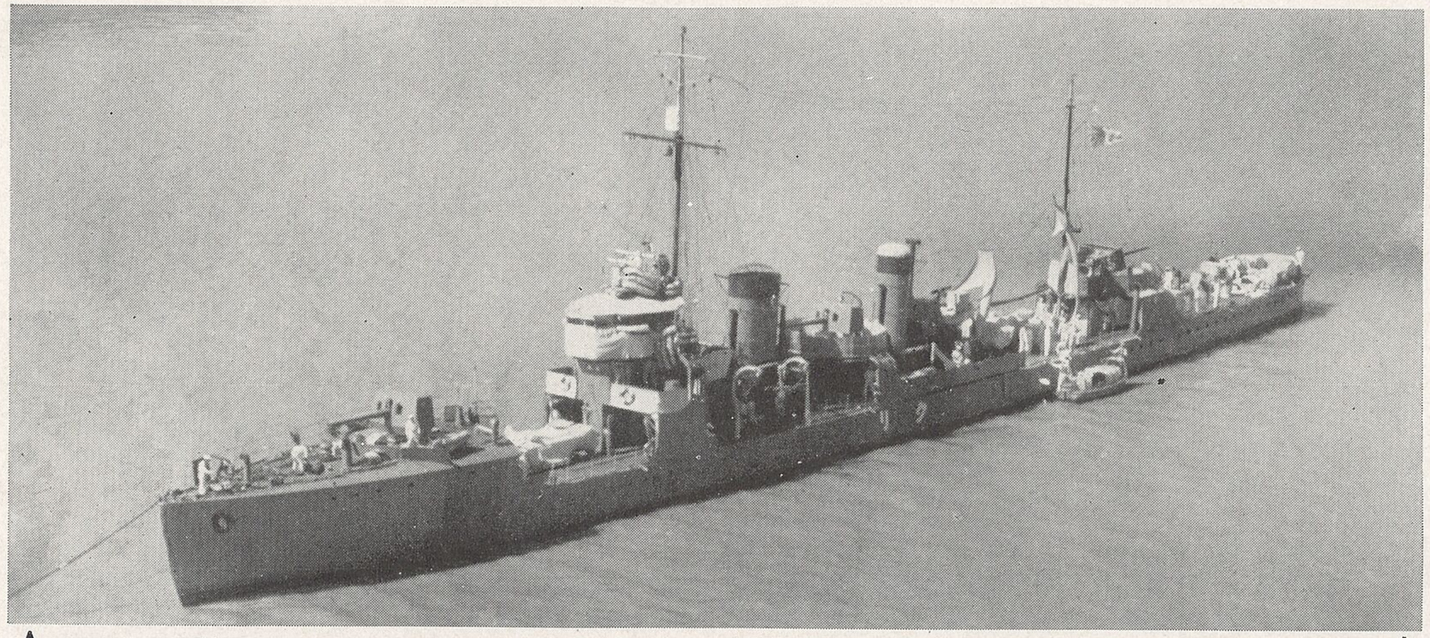
350°

355°



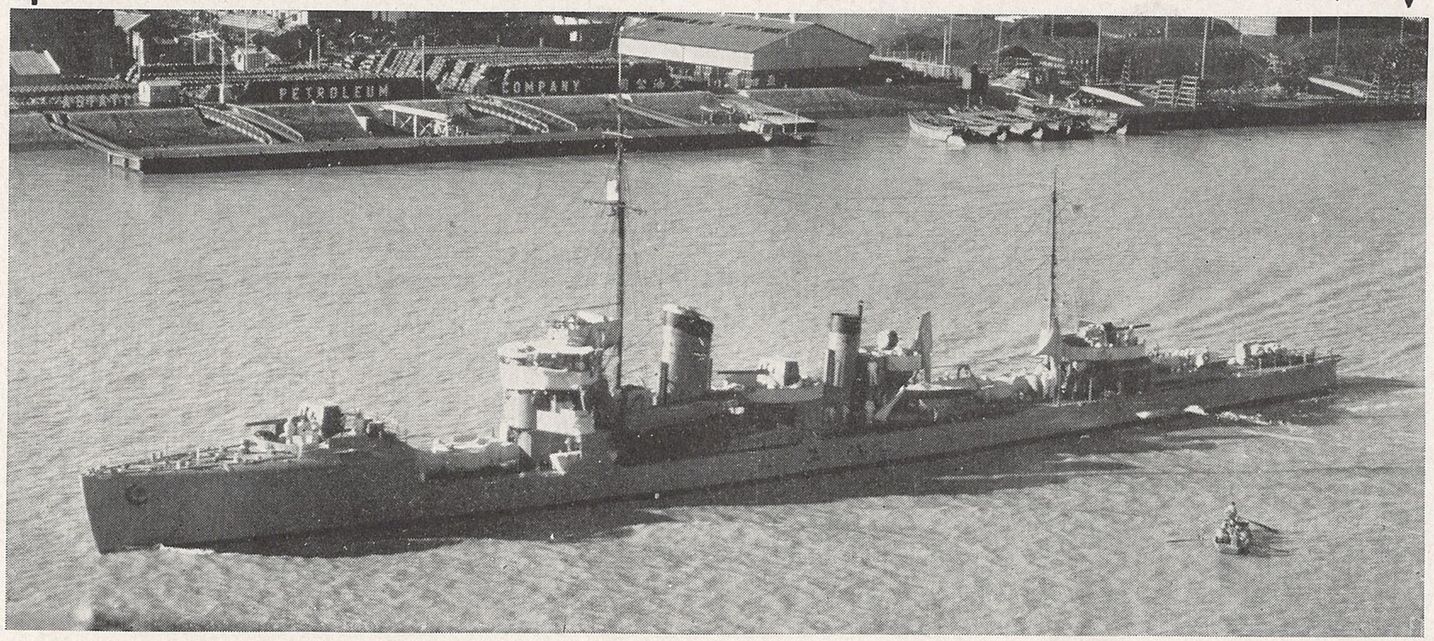
WAKATAKE CLASS—ODD-23-29

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



↑ KURI—8/18/37

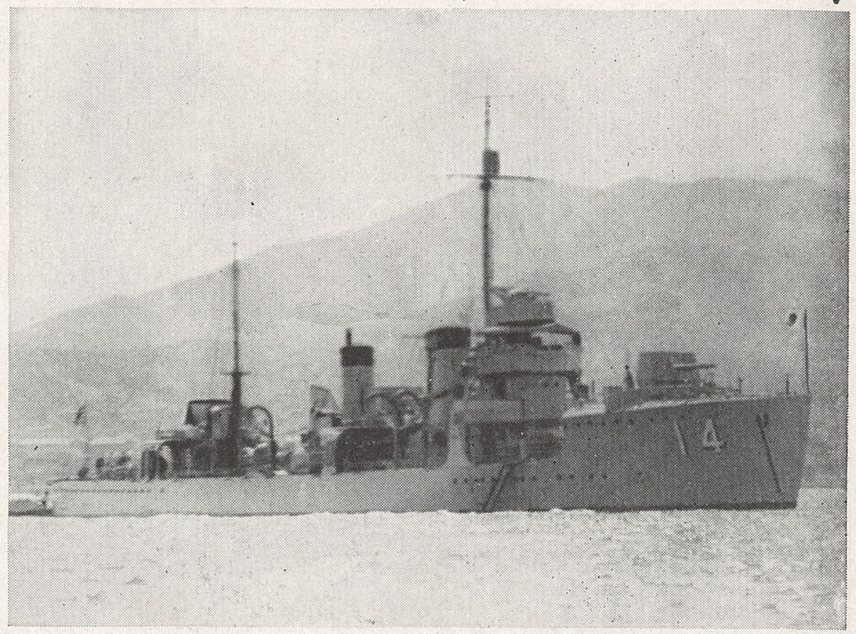
HASU—8/18/37 ↓



WAKATAKE CLASS—ODD-23-29		COMPLETED
ODD–23	WAKATAKE	1922
ODD–24	KURETAKE	1922
ODD–25	SANAYE	1923
ODD–26	ASAGAO	1923
ODD–27	FUYO	1923
ODD–28	KARUKAYA	1923
ODD–29	YUGAO	1924

MOMI CLASS—ODD-4-22		COMPLETED 1919–1923	
ODD– 4	NASHI	ODD–14	SUSUKI
ODD– 5	TAKE	ODD–15	FUJI
ODD– 6	KAYA	ODD–16	ASHI
ODD– 7	KURI	ODD–17	TSUTA
ODD– 8	NIRE	ODD–18	HASU
ODD– 9	AOI	ODD–19	HISHI
ODD–10	KIKU	ODD–20	TADE
ODD–11	KAKI	ODD–21	YOMOGI
ODD–12	TSUGA	ODD–22	SUMIRA
ODD–13	HAGI		

HAGI—10/36 ↓



ONI 41-42 RESTRICTED

DM—WAKATAKE TYPE

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

COMPLETED 1922–23

ARMAMENT—	MAX. ELEV.	MAX. RANGE
2–4".7 (45)	40°	19,000 YARDS
?–AAMG		
?–MINES AND DEPTH CHARGES		

PROPULSION—

MACHINERY— PARSONS GEARED TURBINES

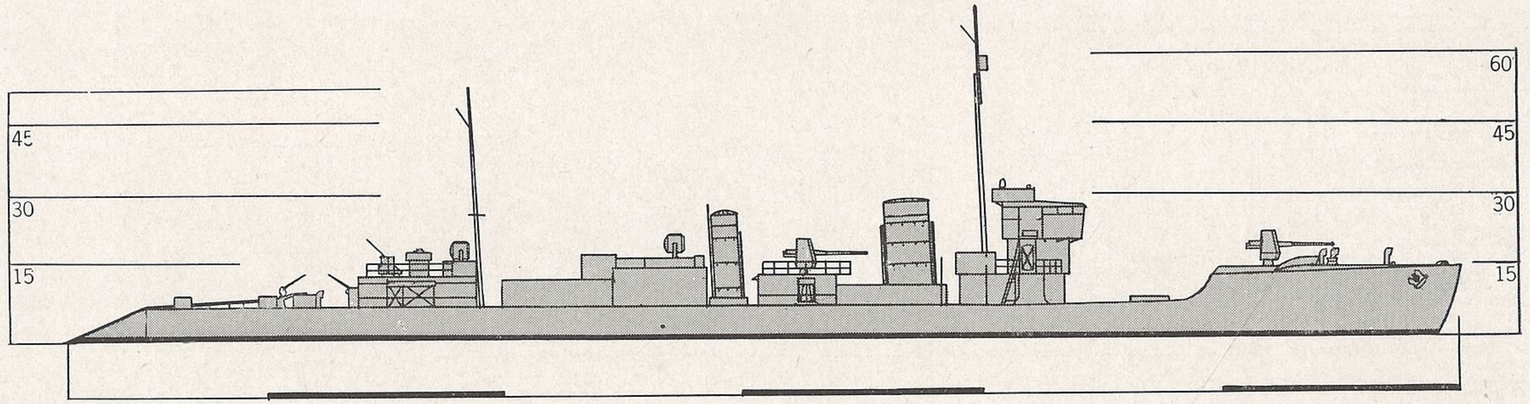
BOILERS— 3 KAMPON

FUEL— OIL, 275 TONS

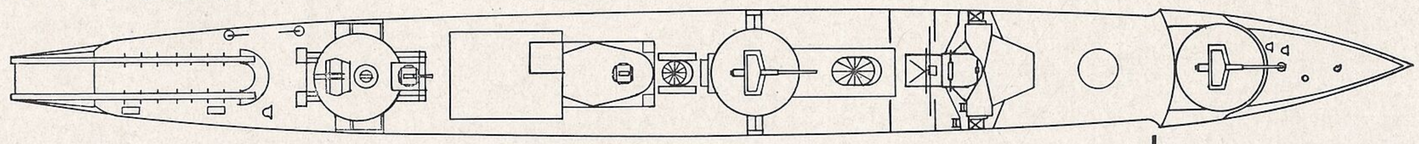
DESIGNED HP— 21,500

MAXIMUM SPEED—31.5 KNOTS (PRE-CONVERSION)

NOTE:—DESTROYER CONVERSION TO DM DUTY PROBABLY OCCURS IN ALL **ODD** CLASSES—NAMES AND NUMBERS UNKNOWN

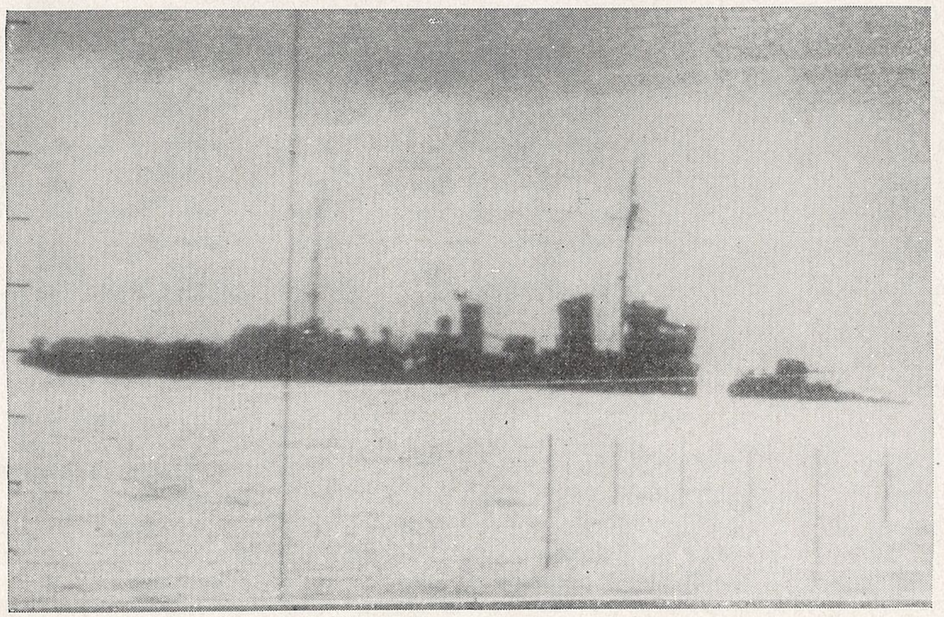


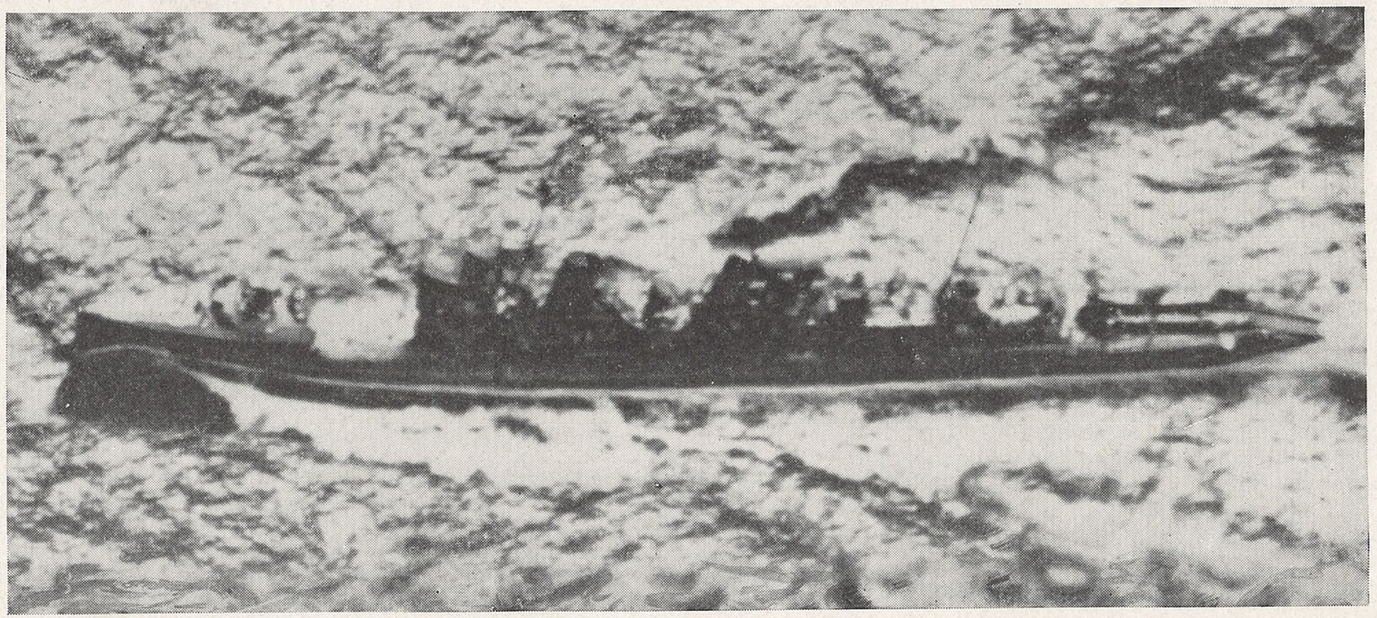
LENGTH—292′ OA
BEAM— 26′6″
DRAFT— 8′3″ (MEAN)



DISPLACEMENT—820 TONS (STANDARD); 900 TONS (NORMAL)

PHOTO—9/6/42 ↓ NOTE CINDERSCREEN

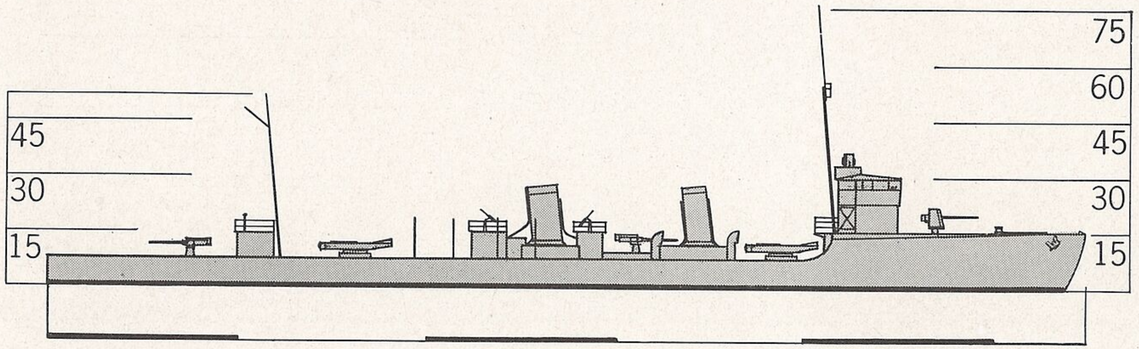




ODD—MISCELLANEOUS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

THESE SHIPS MAY BE EMPLOYED AS APD, AVD, DM, DMS, ETC.



MOMO CLASS—ODD-1-3 COMPLETED 1916–1918

(MANCHUKUAN HAI WEI ALSO OF THIS TYPE)

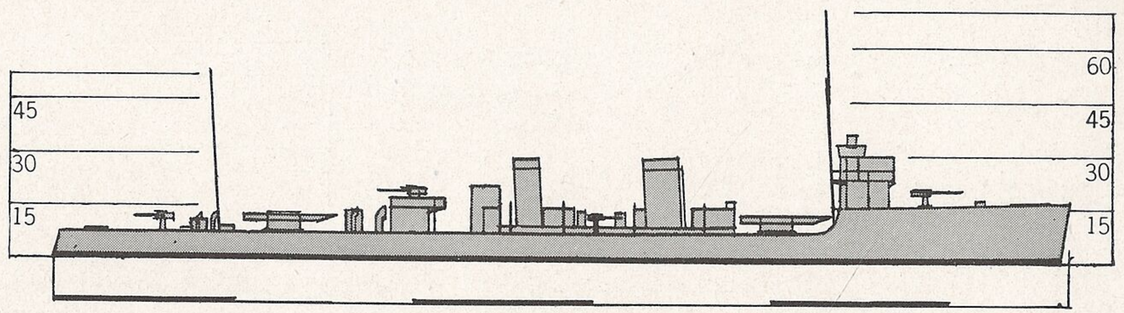
DIMENSIONS— 275′ (PP) x 25′ x 7′9″ (MEAN)

DISPLACEMENT— 835 TONS (NORMAL)

ARMAMENT— 3–4″.7 (45)
2–AAMG
6–18″ TORPEDO TUBES
FITTED FOR MINE-SWEEPING

DESIGNED HP— 16,000

DESIGNED SPEED—31.5 KNOTS



URAKAZE—COMPLETED 1915 AS SISTERSHIP TO ITALIAN AUDACE

DIMENSIONS— 285′ OA x 27′6″ x 9′6″ (MAX.)

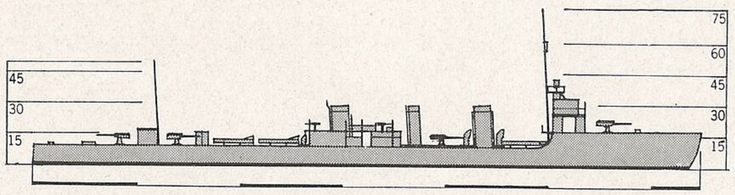
DISPLACEMENT— 629 TONS

ARMAMENT— 1–4″.7
4–12 PDR
4–21″ TORPEDO TUBES

DESIGNED HP— 22,000

DESIGNED SPEED—28 KNOTS

THIS SHIP WAS PHOTOGRAPHED DURING THE TOKYO RAID, 4/18/42



AMATSUKAZE (OLD) CLASS COMPLETED 1916

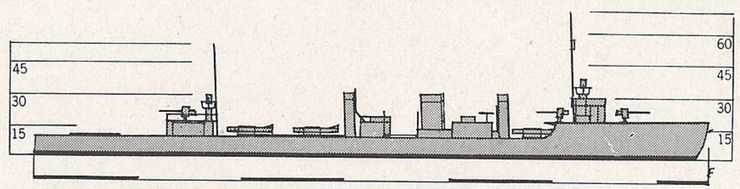
DIMENSIONS— 326′6″ OA x 28 x 9′3″

DISPLACEMENT— 1,227 TONS (MAX.)

ARMAMENT— 4–4″.7 (40)
2–AAMG
6–18″ TORPEDO TUBES

DESIGNED HP— 27,000

DESIGNED SPEED—34 KNOTS



TANIKAZE (OLD) CLASS COMPLETED 1917–1918

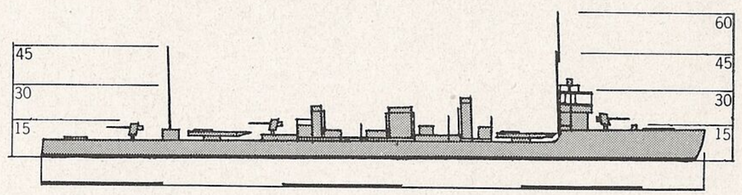
DIMENSIONS— 320′ OA x 29′3″ x 9′6″

DISPLACEMENT— 1,300 TONS (MAX.)

ARMAMENT— 3–4″.7 (45)
2–AAMG
6–21″ TORPEDO TUBES

DESIGNED HP— 28,000

DESIGNED SPEED—34 KNOTS



KABA (OLD) CLASS COMPLETED 1915

DIMENSIONS— 274′ OA x 24′ x 7′11″

DISPLACEMENT—665 TONS

ARMAMENT— 1–4″.7 4–12 PDR (2 AA)
4–18″ TORPEDO TUBES

DESIGNED HP— 9,500 DESIGNED SPEED—30 KNOTS

EX-THRACIAN—BRITISH "S" CLASS COMP. 3/23/22

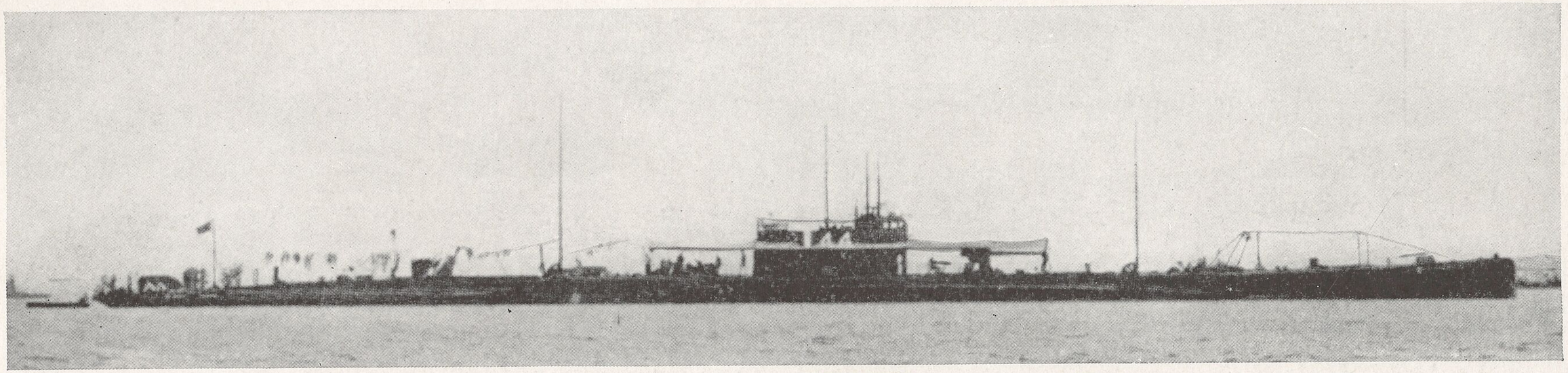
BLOWN UP AT HONG KONG; SALVAGED BY JAPANESE

DIMENSIONS— 276½′ OA x 26′10″ x 10′10″ (MEAN)

DISPLACEMENT—905 TONS (STANDARD)

FORMER ARMAMENT—3–4″ 1–12 PDR AA
1–2 PDR 4–21″ TORPEDO TUBES

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943



I-151 CLASS

	I-151 ↑	I-152 ↓
LENGTH—	300′	330′11″
BEAM—	28′11″	25′1″
DRAFT—	15′1″	16′10″

	SURFACE	SUBMERGED
DISPLACEMENT—(STANDARD)	1,390 TONS	2,000 TONS

ARMAMENT—
1–4″/7/40
TT—8–21″ (6 BOW, 2 STERN)

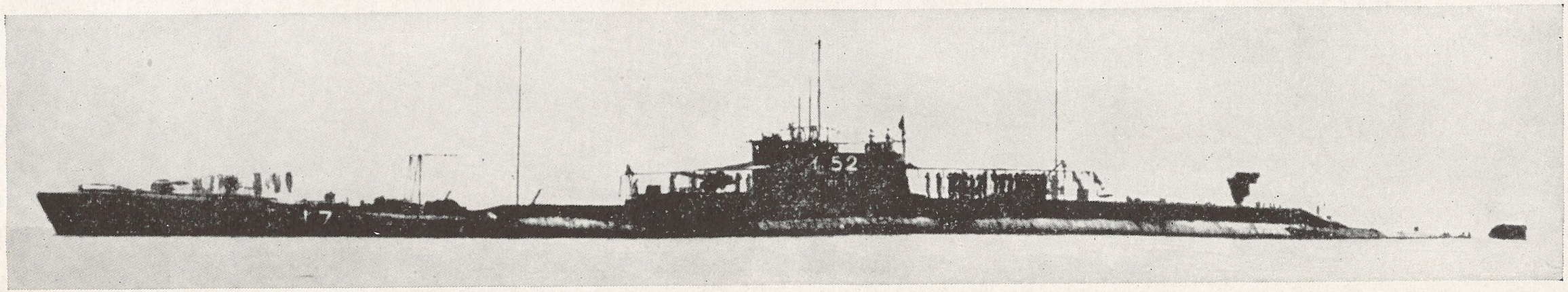
MAX. RANGE (HORIZONTAL)
10,800 YDS.
TORPEDOES 20

COMPLEMENT—60

	I-151	I-152
PROPULSION—MACHINERY—	4—SULZER DIESELS 4—MOTORS	2—SULZER DIESELS 2—MOTORS
FUEL—	470 TONS OIL	470 TONS OIL
SURFACE H.P.—	5200	6000
SUBMERGED H.P.—	2600	1800
SUBMERGED SPEED—	9	
SURFACE SPEED—	I-151—17 KTS I-152—20 KTS	
PROPELLERS—	I-151—4	I-152—2

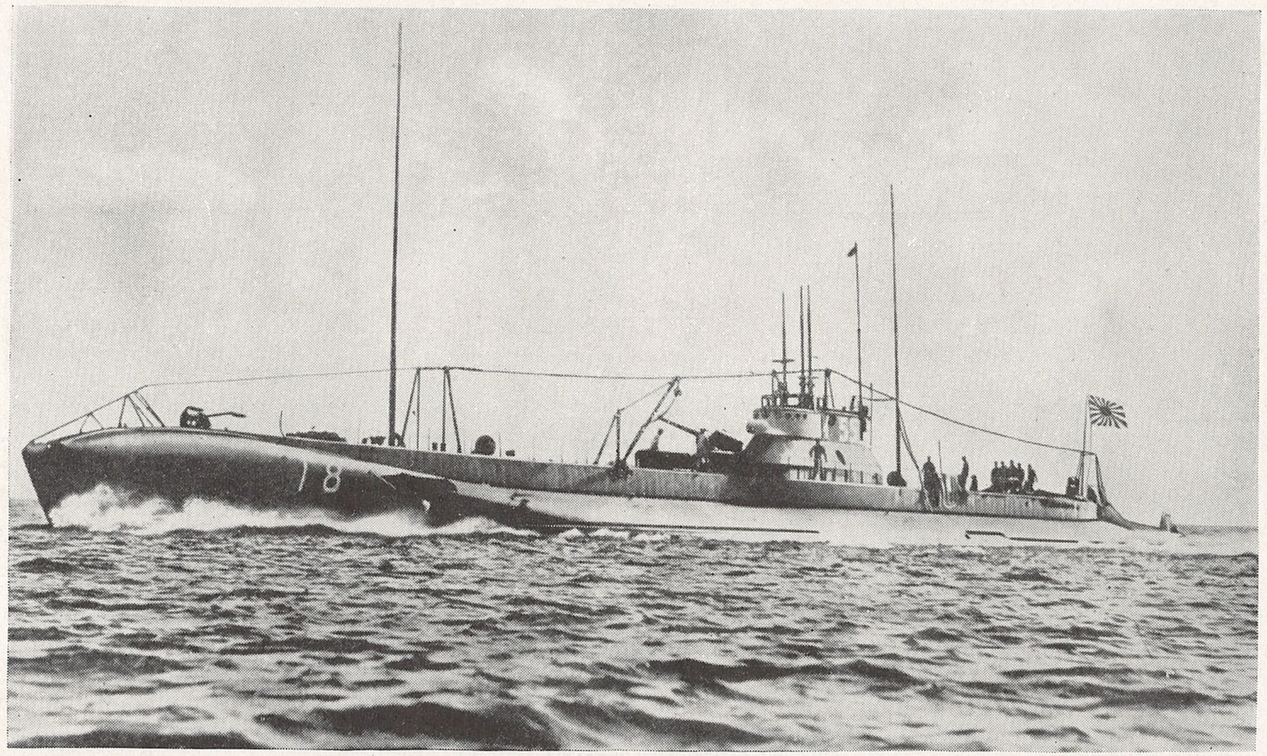
R.P.M.—340 RADIUS—6100
R.P.M.—300
AT MINIMUM SPEED —25,450

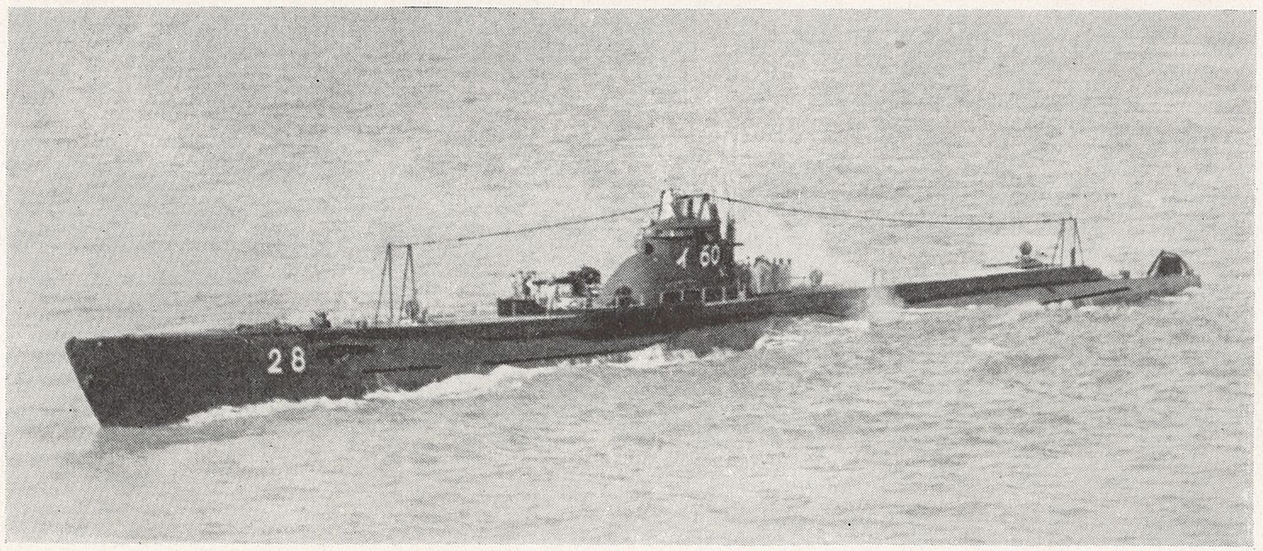
I-151—SS 1—COMPLETED 1924
I-152—SS 2—COMPLETED 1925



SS 3-14

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943





I-153 CLASS

LENGTH—	331′		
BEAM—	26′		
DRAFT—	16′		
		SURFACE	SUBMERGED
DISPLACEMENT—	(STANDARD)	1,635 TONS	2,100 TONS
ARMAMENT—	MAX. ELEV,	MAX. RANGE (HOR.)	MAX. RANGE (VERT.)
1–4″/7/40		10,800 YD.	
1–3″ AA (?)	85°	9,000 YD.	20,000 FT.
2–AAMG			

TORPEDO TUBES— 8–21″ (6 BOW, 2 STERN)—TORPEDOES 20

COMPLEMENT— 70–85

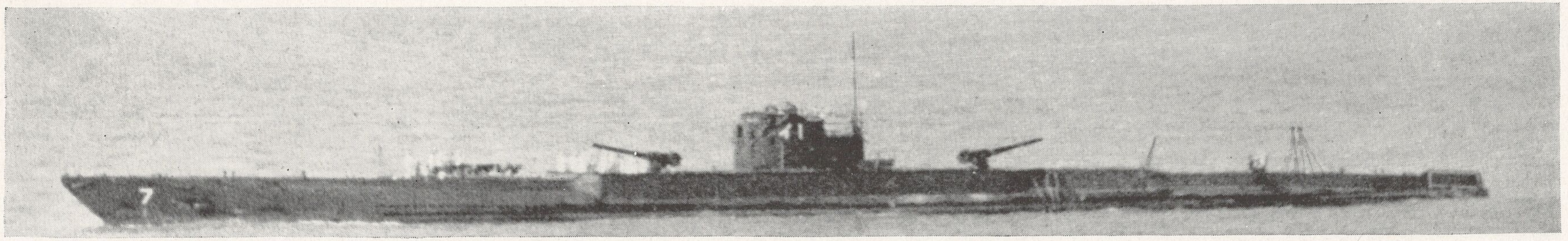
PROPULSION—

MACHINERY—	2 DIESELS—SULZER—2 MOTORS	
FUEL—	OIL—255 TONS	
SURFACE HP—	6,000	
SUBMERGED HP—	1,800	RADIUS—6,700
SURFACE SPEED—	19 KTS	12 KNOTS— 8,640
SUBMERGED SPEED—	9 KTS	MINIMUM— 29,500

I-153 CLASS COMPLETED 1927–1930

I-153—SS 3
I-154—SS 4
I-155—SS 5
I-156—SS 6
I-157—SS 7
I-158—SS 8
I-159—SS 9
I-160—SS 10
I-161—SS 11
I-162—SS 12
I-163—SS 13
I-164—SS 14

NOTE—2 PERISCOPES IN CONTROL ROOM, 1 IN CONNING TOWER



I-1 CLASS SS 15-18

LENGTH—320′ BEAM—30′3″ DRAFT—15′9″
DISPLACEMENT—(STANDARD) SURFACE—1,955 TONS SUBMERGED—2,480 TONS

ARMAMENT	MAX. ELEV.	MAX. RANGE (HORIZONTAL)
2-5″/50 (ONE MAY BE REMOVED)	15°	17,000 YD. (?)
2-AAMG		
TT 6-21″ (4 BOW, 2 STERN)	TORPEDOES—15	
1-AIRCRAFT (COLLAPSIBLE)		

PROPULSION— MACHINERY—2 M.A.N. DIESELS, 2 MOTORS
BOILERS— KAMPON FUEL— OIL—520 TONS
SURFACE HP— 6,000 SUBMERGED HP—3,600
SURFACE SPEED— 17 R.P.M.—387-450—RADIUS—9,850
SUBMERGED SPEED—9 12 KNOTS— 15,600

I-1 CLASS COMPLETED—1926-29
I-1—SS 15, I-2—SS 16, I-3—SS 17, I-4—SS 18

NOTES—

SEAPLANE HOUSED IN TWO HULL COMPARTMENTS ABAFT CONNING TOWER
DOUBLE HULL—NET CUTTERS (I-2, I-3)

I-165—CLASS SS 19-21

LENGTH—320′7″ WL BEAM—26′11″ DRAFT—15′10″
DISPLACEMENT—(STANDARD) SURFACE—1,638 TONS SUBMERGED—2,100 TONS

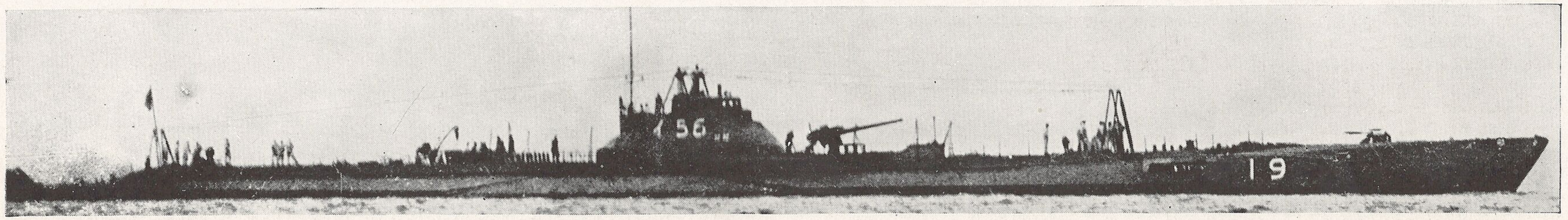
ARMAMENT— 1-4″ 1-AAMG
TT—6-21″ (4 BOW—2 STERN)

PROPULSION— MACHINERY—2 M.A.N. DIESELS—2 MOTORS
SURFACE HP— 6,000 SUBMERGED HP—1,800
SURFACE SPEED— 19 KTS @ RADIUS— 6,700
SUBMERGED SPEED—9 KTS

I-165 CLASS COMPLETED—1932
I-165—SS 19, I-166—SS 20, I-167—SS 21

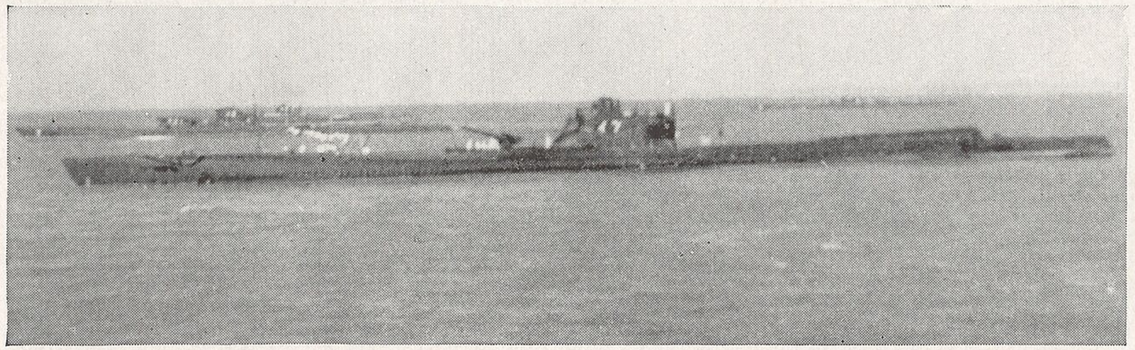
NOTES—

3 SEPARATE HULLS
HYDROPHONE LISTENING GEAR—12.5 MILE RANGE
EQUIPPED WITH NET CUTTERS



SS 22-33

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943



I-5 CLASS SS 22, 23, 32, 33

LENGTH—	I-5	I-6	I-7-8
	319'11" WL	309'5" WL	343'8" WL
BEAM—	30'3"	29'8"	30'
DRAFT—	15'9"	15'5"	14'5"
DISPLACEMENT (STANDARD) TONS		SURFACE	SUBMERGED
		I-5-1900	I-5-2500
		I-6-1900	I-6-2600
		I-7-8-1950	I-7-8-2600

ARMAMENT	MAX. RANGE
1-5"/50 I-5-6	19,000 YD.
1-5"5/50 I-7	20,000 YD.
2-5"5/50 I-8	20,000 YD.

2-AAMG

TT—6-21" TORPEDOES 15

1-AIRCRAFT (COLLAPSIBLE)

COMPLEMENT— 60

PROPULSION—

MACHINERY— 2 M.A.N. DIESELS—2 MOTORS

BOILERS— KAMPON

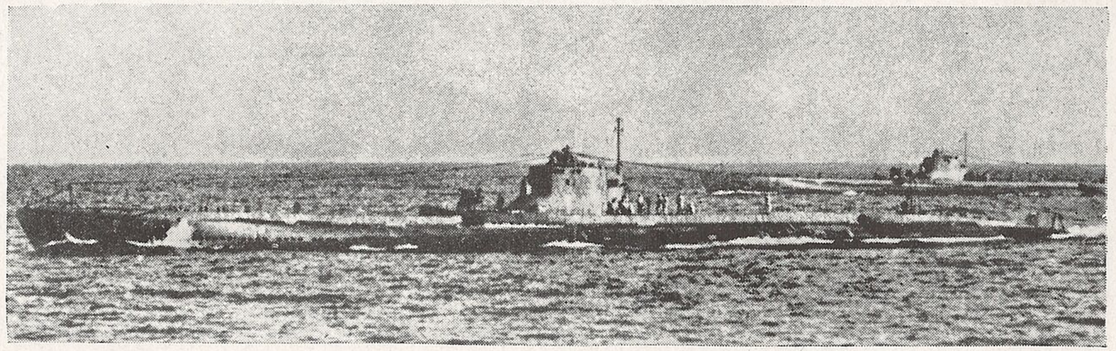
SURFACE H.P.— 6,000 SUBMERGED H.P.—2642-2800

SUBMERGED SPEED—9 KTS

SURFACE SPEED— 17 KTS R.P.M. 350 RADIUS 9,850 AT MINIMUM SPEED 34,870

(2) I-5 CLASS	COMPLETED
I-5 SS 22	(1932)
I-6 SS 23	(1935)
I-7 SS 32	(1937)
I-8 SS 33	(1938)

NOTE—SEAPLANE HOUSED IN TUBULAR HANGAR ABAFT CONNING TOWER



I 168 CLASS SS 24-31

LENGTH—331'5" WL

BEAM— 27'

DRAFT— 13'

DISPLACEMENT STANDARD (SURFACE) 1,400 TONS

ARMAMENT		MAX. RANGE (HORIZONTAL)
1-4"	I 168-170	
1-4".7/40	I 171--175	10,200 YD.

2 AAMG

TT—6-21" (4 BOW, 2 STERN) 15 TORPEDOES—MINES (?)

COMPLEMENT— 60

PROPULSION—

MACHINERY— 2 DIESELS

FUEL—OIL— 500 TONS

DES. H.P.— 6,000

SUBMERGED H.P.— 1,800

SUBMERGED SPEED—9 KTS

SURFACE SPEED— 20 KTS RADIUS-5,350 MINIMUM SPEED 25,400

I 168 CLASS	COMPLETED (1934-1938)
I 168 (ex I-68) SS 24	
I 169 (ex I-69) SS 25	
I 170 (ex I-70) SS 26	
I 171 (ex I-71) SS 27	
I 172 (ex I-72) SS 28	
I 173 (ex I-73) SS 29	
I 174 (ex I-74) SS 30	
I 175 (ex I-75) SS 31	

NOTE—FITTED WITH MINE TRIPPING AND CUTTING GEAR

ONI 41-42 RESTRICTED

SS 34-49, 70-79

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

I-9 CLASS 9-41—COMPLETED 1940-41
SS 43-49 STILL COMPLETING

LENGTH—343'8" WL

BEAM— 29'10"

DRAFT— 14'5" (MEAN)

DISPLACEMENT—2,180 TONS SURFACE (STANDARD)
2,600 TONS SUBMERGED

ARMAMENT—	MAX. ELEV.	MAX. RANGE (HORIZONTAL)	MAX. RANGE (VERTICAL)
1-5"/5		20,000 YARDS	
2-AAMG			

8-21" TORPEDO TUBES—20 TORPEDOES CARRIED

1 OR 2 AIRCRAFT (HOUSED IN TWIN HULL COMPARTMENTS ABAFT C. T.)

NOTE—SOME BELIEVED TO CARRY 2-MAN MIDGET SUBMARINES (SEE CUT)

PROPULSION—

DESIGNED H.P.— 6,000-9,000/ (SURFACE)

DESIGNED SPEED—20 KNOTS SURFACE, 9 KNOTS SUBMERGED

RADIUS— 5,300 MILES @ 20 KTS
25,480 MILES MAXIMUM

I 9-41 COMPLETED 1940-1941

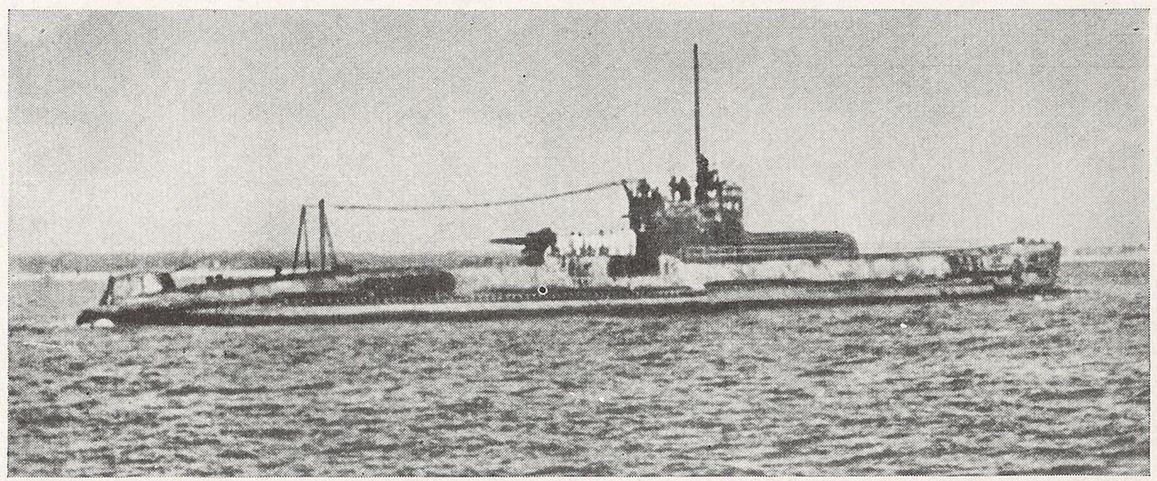
I 43-48 BUILDING

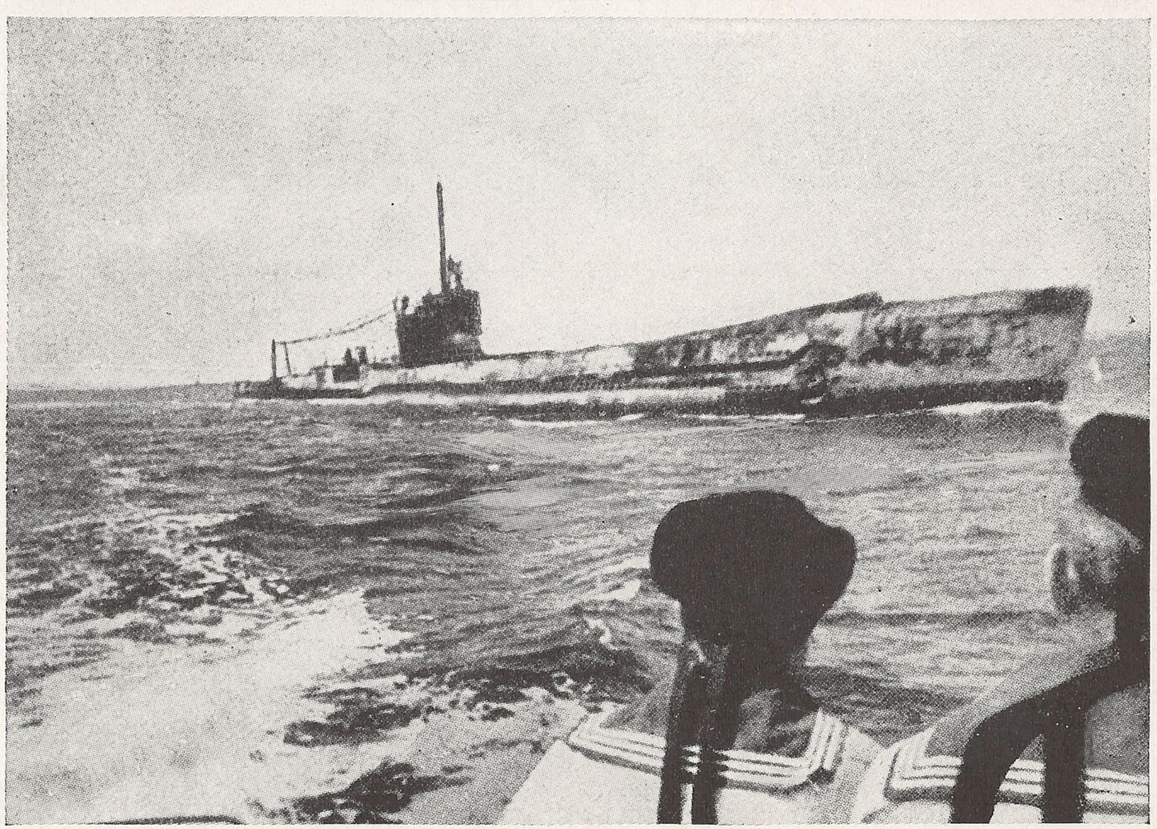
PROBABLY I-22, 27, OR 29 PHOTOGRAPHED AT ST. NAZAIRE 9/29/42

HANGAR FOR MIDGET SS CENSORED (BELOW), RECONSTRUCTED (ABOVE).

I-76 CLASS— SS 70-79—NO DATA

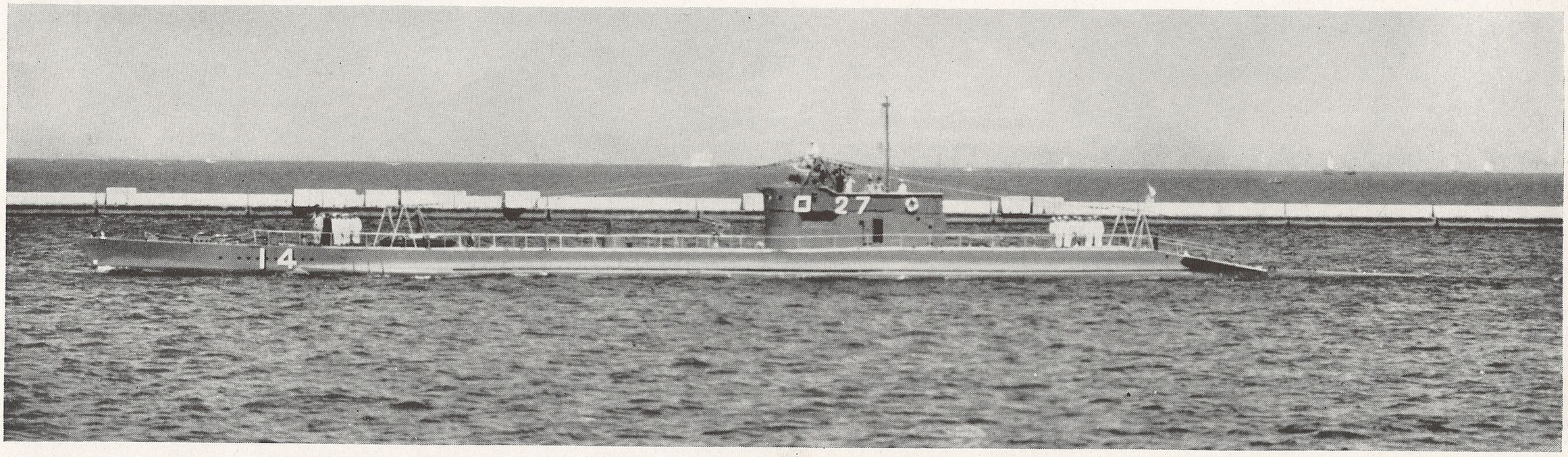
I-76-82 BELIEVED COMPLETED, OTHERS BUILDING





SS 80-94—OSS 1-3

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943



RO-26 CLASS OSS 1-3

LENGTH—243′6″(OA) BEAM—20′1″ DRAFT—12′3″

	SURFACE	SUBMERGED
DISPLACEMENT (STANDARD) TONS	746	1,000

ARMAMENT	MAX. ELEV.	MAX. RANGE (HORIZONTAL)	MAX. RANGE (VERTICAL)
1–3″/15 DP	85°	9,000 YARDS	20,000 FEET
1–AAMG			
TT–4–21″ (BOW)			

COMPLEMENT—45

PROPULSION

MACHINERY— 2 SULZER DIESELS 2 MOTORS
FUEL— 75 TONS OIL
SUBMERGED HP— 1,200 SURFACE HP—2,600
SUBMERGED SPEED—10 KTS RADIUS 3,860
SURFACE SPEED— 16 KTS

RO-26 CLASS RO-26 OSS 1, RO-27 OSS 2, RO-28 OSS 3 COMPLETED 1923–24

NOTE—THESE SHIPS MAY BE USED FOR TRAINING

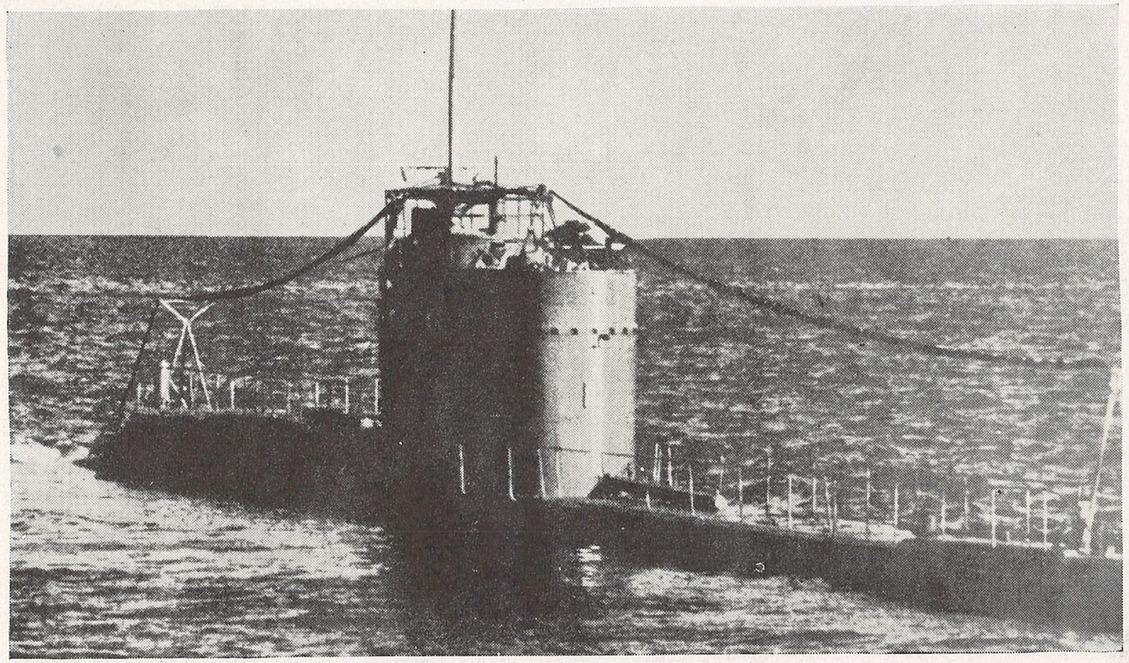
I-101 CLASS SS 80-86 NO DATA

I-101—SS 80
I-102—SS 81
I-103—SS 82 (1942)
I-104—SS 83
I-105—SS 84 (BUILDING)
I-106—SS 85 (BUILDING)
I-107—SS 86 (BUILDING)

I-176 CLASS SS 87-94 NO DATA

I-176—SS 87 (BUILDING)
I-177—SS 88 (BUILDING)
I-178—SS 89 PROJECTED
I-179—SS 90 PROJECTED
I-180—SS 91 PROJECTED
I-181—SS 92 PROJECTED
I-182—SS 93 PROJECTED
I-185—SS 94 PROJECTED

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943



RO 51 CLASS OSS 4-12

LENGTH—**RO 51-56**—231'7" OA **RO 57-59**—250' PP

BEAM— 23'6" DRAFT—13'

DISPLACEMENT (STANDARD) TONS	SURFACE	SUBMERGED
	RO 51-56—893	1,082
	RO 57-59—889	

ARMAMENT	MAX. ELEV.	MAX. RANGE (HOR.)	MAX. RANGE (VER.)
1—3"/15 DP	85°	9,000 YDS.	20,000 FT.

RO 51-56 TT—6-18" (BOW)—TORPEDOES, 12

RO 57-59 TT—4-21" (BOW)—TORPEDOES, 8

COMPLEMENT—65

PROPULSION—MACHINERY—2 DIESELS—VICKERS 12 CYL.—4 MOTORS

FUEL—65 TONS—OIL

SURFACE HP— 2,400 SUBMERGED HP—1,200

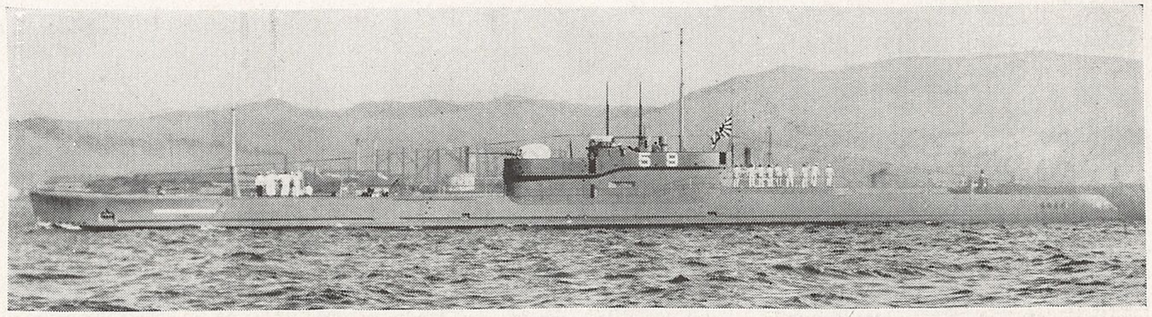
SURFACE SPEED— 17 KTS

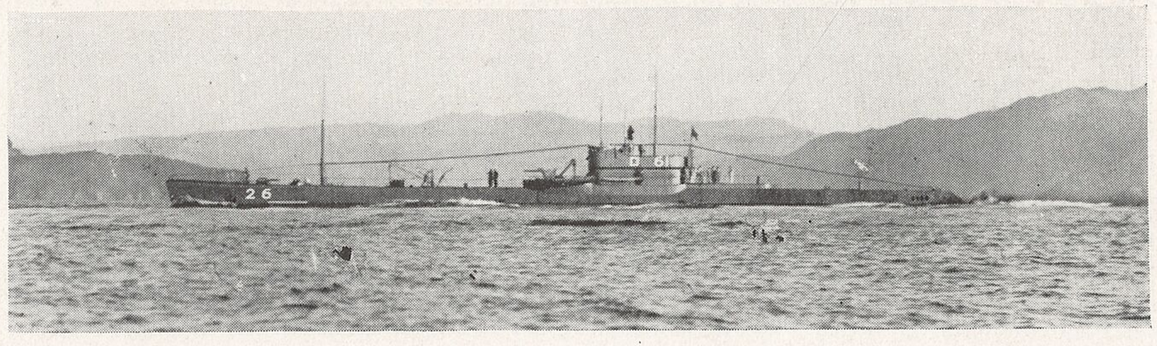
SUBMERGED SPEED—10 KTS

RO 51 CLASS COMPLETED 1922-1923

RO-57 OSS 10, RO-58 OSS 11, RO-59, OSS 12

NOTE—OSS 4-9 MAY BE USED FOR TRAINING





RO 60 CLASS OSS 13-21

LENGTH—250' (P.P.)—BEAM-24'3"—DRAFT-12'4"

DISPLACEMENT—(STANDARD) TONS	SURFACE	SUBMERGED
	988	1,300

ARMAMENT	MAX. ELEVATION	MAX. RANGE (HOR.)	MAX. RANGE (VER.)
1— 3" AA	85°	9,000 YDS.	20,000 FEET
3"/15 DP			

TT—6-21" (4 BOW 2 STERN OR ALL BOW)

COMPLEMENT—47

PROPULSION—MACHINERY—DIESEL—2 VICKERS SOLID INJECTION

FUEL—75 TONS OIL

SURFACE HP—2,400 SUBMERGED HP—1,800

SURFACE SPEED— 16 KTS

SUBMERGED SPEED—10 KTS

MAX. SUSTAINED— 13 KTS RADIUS 4,670

RO 60 CLASS COMPLETED 1923-1926

RO 62 OSS 15
RO 63 OSS 16
RO 64 OSS 17
RO 65 OSS 18
RO 67 OSS 20
RO 68 OSS 21

NOTES—DOUBLE HULLS

2 PERISCOPES 60MM TAPERED HEAD

CLEARING WIRES—NO NET CUTTERS

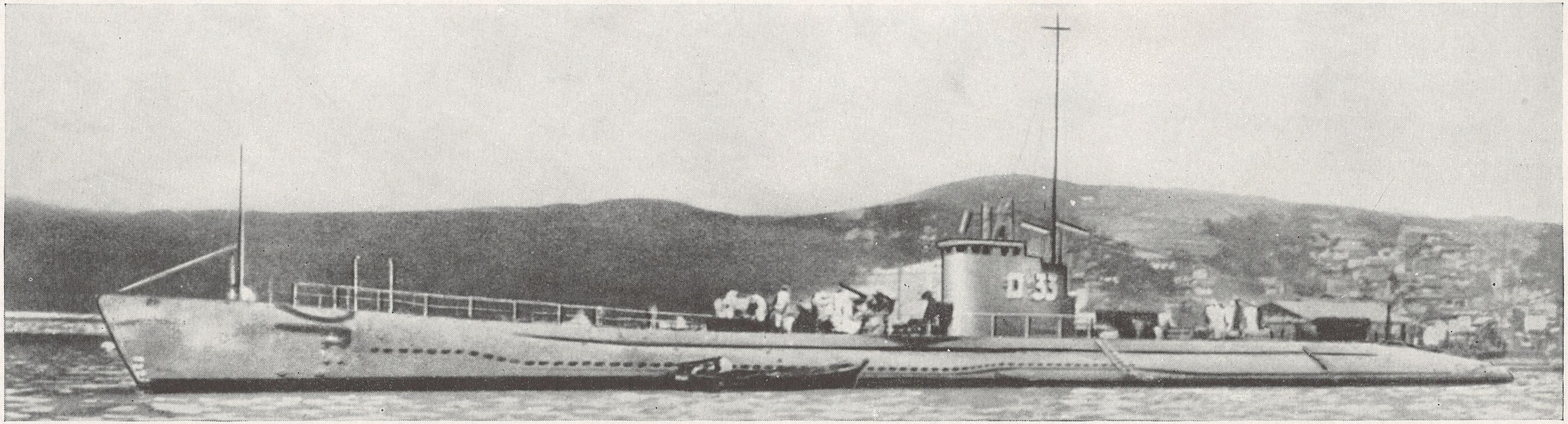
TWO TELESCOPIC RADIO MASTS

(NOTE VARIATION IN GUN MOUNTS)

OSS 22-34

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

ONI 41-42



RO-33 CLASS—OSS 22-26

LENGTH—239′6″ OA BEAM—22′ DRAFT—10′8″
DISPLACEMENT—(STANDARD) SURFACE—700 TONS

ARMAMENT	MAX. ELEV.	MAX. RANGE (HOR.)	MAX. RANGE (VERT.)
1–3″/15 DP	85°	9,000 YDS.	20,000 FT.
1–MG			

TT—4–21″ (BOW)
PROPULSION—
MACHINERY— DIESELS
BOILERS—
SURFACE HP— 2,600
SUBMERGED HP— 1,300
SURFACE SPEED— 16.9 KNOTS
SUBMERGED SPEED—10 KNOTS

RO-33 CLASS COMPLETED 1935–1942

RO–33 OSS 22
RO–34 OSS 23
RO–37 OSS 26

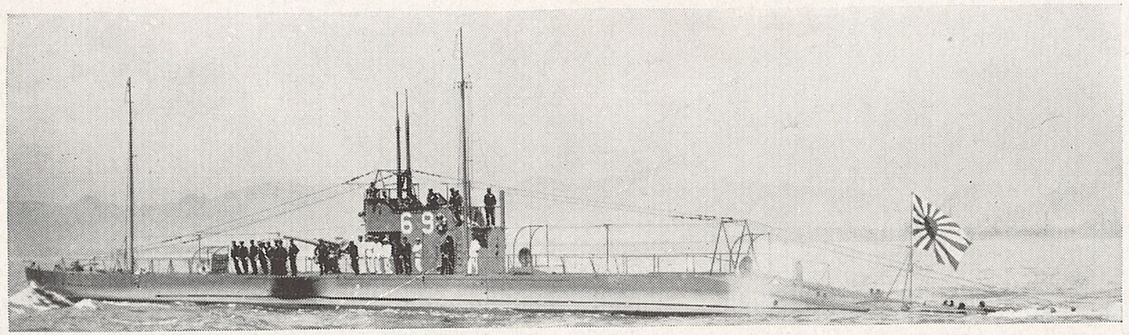
RO-100 CLASS—OSS 27-34 NO DATA COMPLETED 1942

RO–100 OSS 27
RO–101 OSS 28
RO–102 OSS 29
RO–103 OSS 30
RO–104 OSS 31—BUILDING
RO–105 OSS 32—BUILDING
RO–106 OSS 33—BUILDING
RO–107 OSS 34—BUILDING

ONI 41-42 RESTRICTED

MINELAYERS—SM 1-8

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943



RO-29 CLASS SM 1-4

LENGTH—243'6" OA
BEAM— 20'9"
DRAFT— 12'3"

DISPLACEMENT—(STANDARD) SURFACE 655 TONS SUBMERGED 1,000? TONS

ARMAMENT—
1-4.7"/40
1-3 POUNDER
TT—4-21" (BOW)—TORPEDOES 8
MINES-42

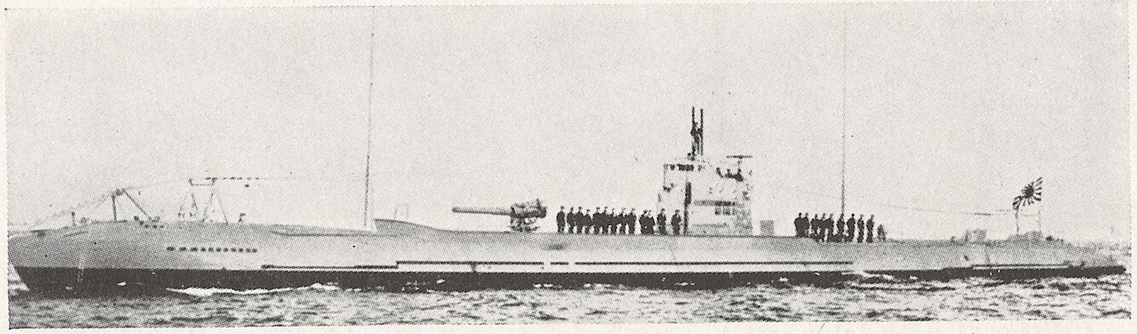
MAX. RANGE 10,800 YDS.

COMPLEMENT—43

PROPULSION—
MACHINERY— 2 FIAT DIESELS
FUEL— 60 TONS OIL
SURFACE HP— 1,300
SUBMERGED HP— 1,200
SURFACE SPEED— 13 KTS
SUBMERGED SPEED—10 KTS RPM—385

(3) **RO-29 CLASS** COMPLETED—1924-1927

RO-29	**SM 1**	— MAY BE USED FOR TRAINING
RO-30	**SM 2**	
RO-31	**SM 3**	
RO-32	**SM 4**	



I-121 CLASS SM 5-8

LENGTH—279'6" (P.P.)
BEAM— 24'7"
DRAFT— 14'1"

DISPLACEMENT—(STANDARD) TONS SURFACE 1,142 SUBMERGED 1,470

ARMAMENT
1-5.5"/50 MAX. ELEV. 15°
1-AAMG
TT—4-21" (BOW)—TORPEDOES 20
MINES—42 —2 TUBES

MAX. RANGE (HORIZONTAL) 16,000 YD (E)

COMPLEMENT—70

PROPULSION—
MACHINERY— 2 M. A. N. DIESELS
SURFACE HP— 2,400
SUBMERGED HP— 1,200
SURFACE SPEED— 14 KTS
SUBMERGED SPEED—9.5 KTS

I-121 CLASS COMPLETED—1927-1928

I-121	**SM 5**	**ex I 21**
I-122	**SM 6**	**ex I 22**
I-123	**SM 7**	**ex I 23**
I-124	**SM 8**	**ex I 24**

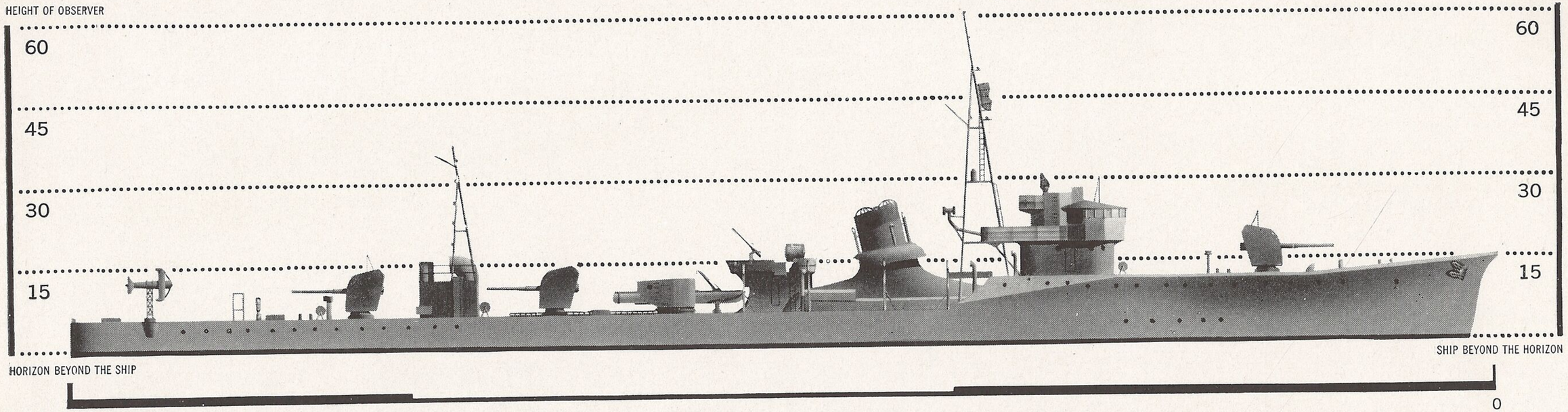
NOTES—
3 TAPERED-HEAD PERISCOPES.

ONI 41-42 RESTRICTED

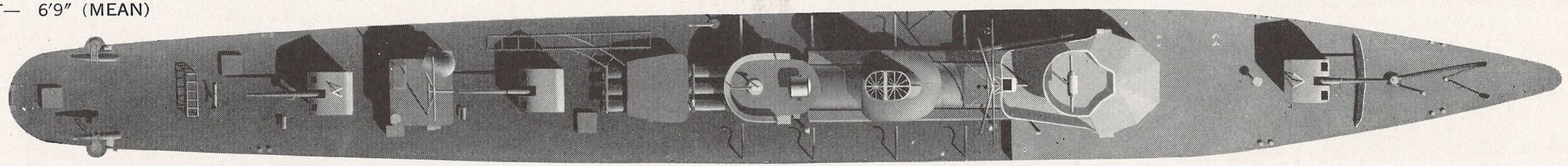
OTORI CLASS TB 5–12
IDENTICAL WITH MINOR BRIDGE VARIATIONS

CHIDORI CLASS TB 1-4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



LENGTH—268′6″ OA
BEAM— 25′10″
DRAFT— 6′9″ (MEAN)



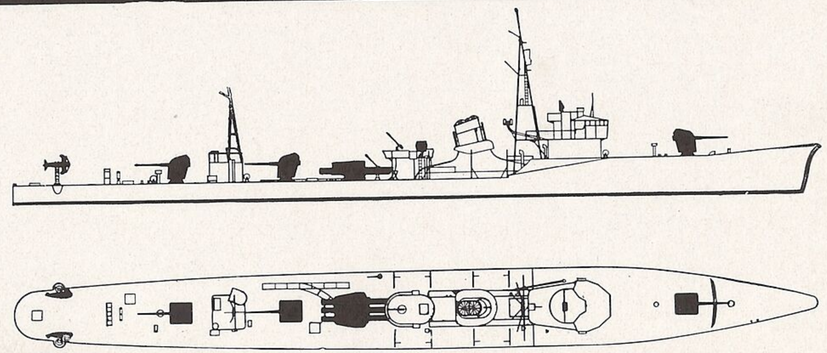
DISPLACEMENT—527-595 TONS (STANDARD)

ARMAMENT

	MAX. ELEV.	MAX. RANGE (HORIZONTAL)
3–4″7	85°	19,000 YDS.
1–2–AAMG		
3–21″ TORPEDO TUBES	10(?) DEPTH CHARGES	

PROPULSION

MACHINERY— 2 PARSONS GEARED TURBINES
BOILERS— 2 KAMPON
FUEL— OIL 100-150 TONS
DESIGNED HP— 7,000-9000
DESIGNED SPEED—26-28 KNOTS



4 CHIDORI CLASS

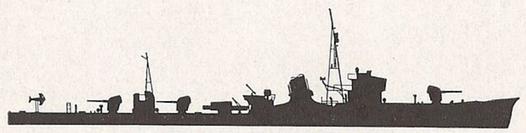
8 OTORI CLASS

TB 1-4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

MISTAKEN IDENTITY

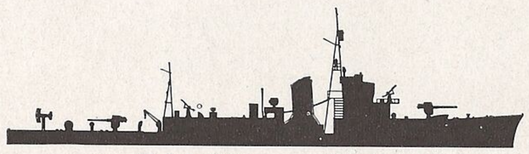
(SEE #13 CLASS AM 7–12)



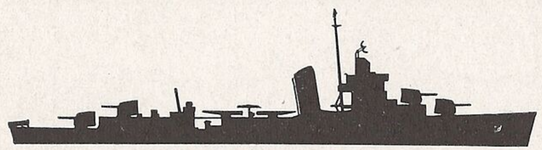
CHIDORI–OTORI CLASSES TB 1-12

YUBARI CL 13

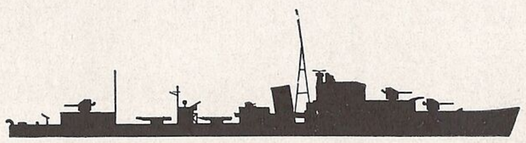
DD TERATSUKI CLASS



AM #13, CLASS AM 7-12



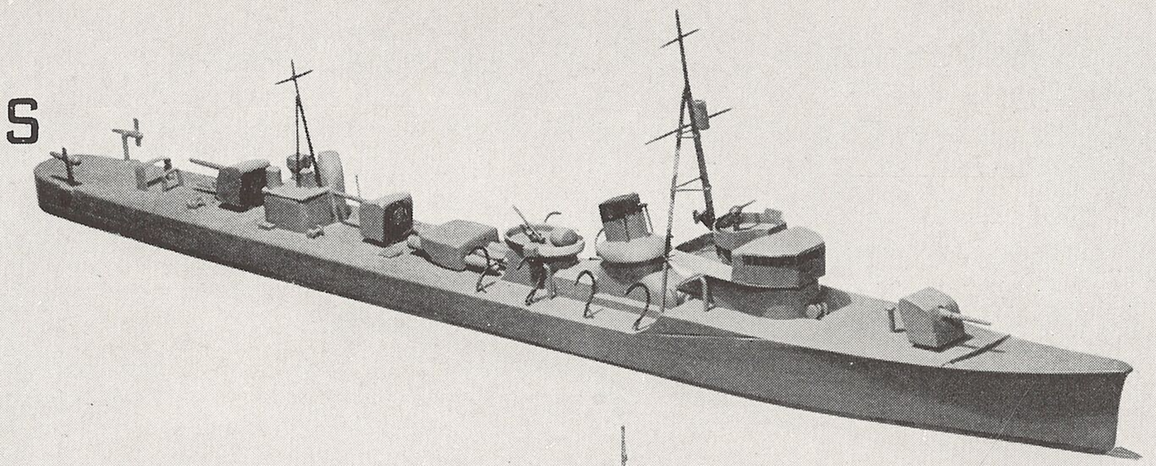
SIMS CLASS (US) DD

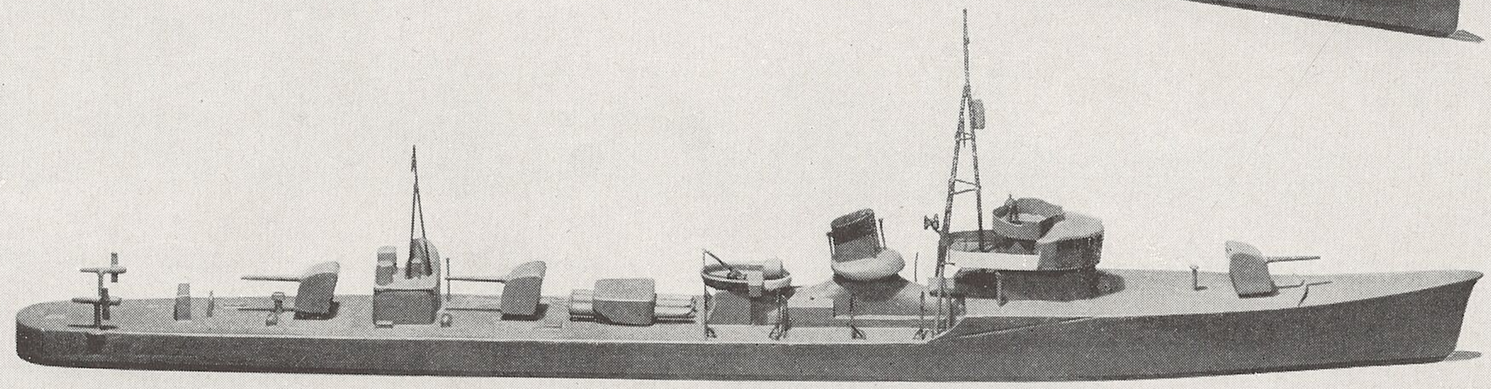


"J" CLASS (GB) DD

AERIAL VIEWS

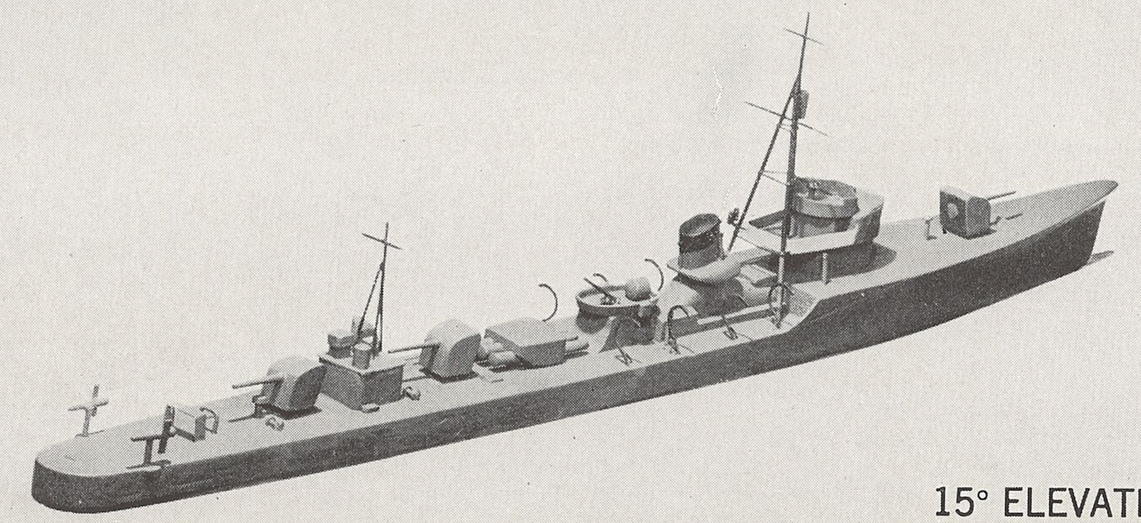
45°





90°

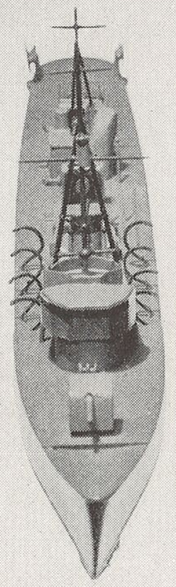
135°



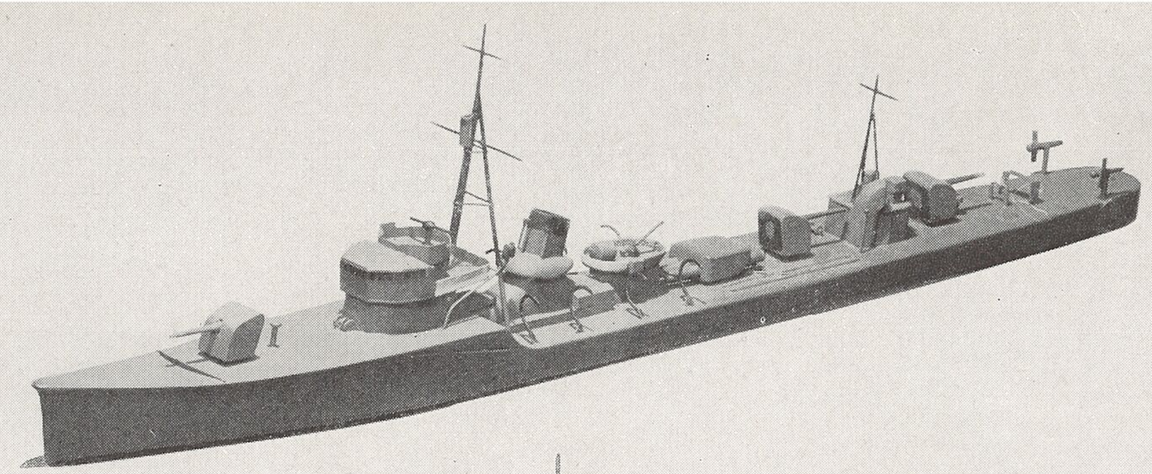
15° ELEVATION

ONI 41-42

0°



315°



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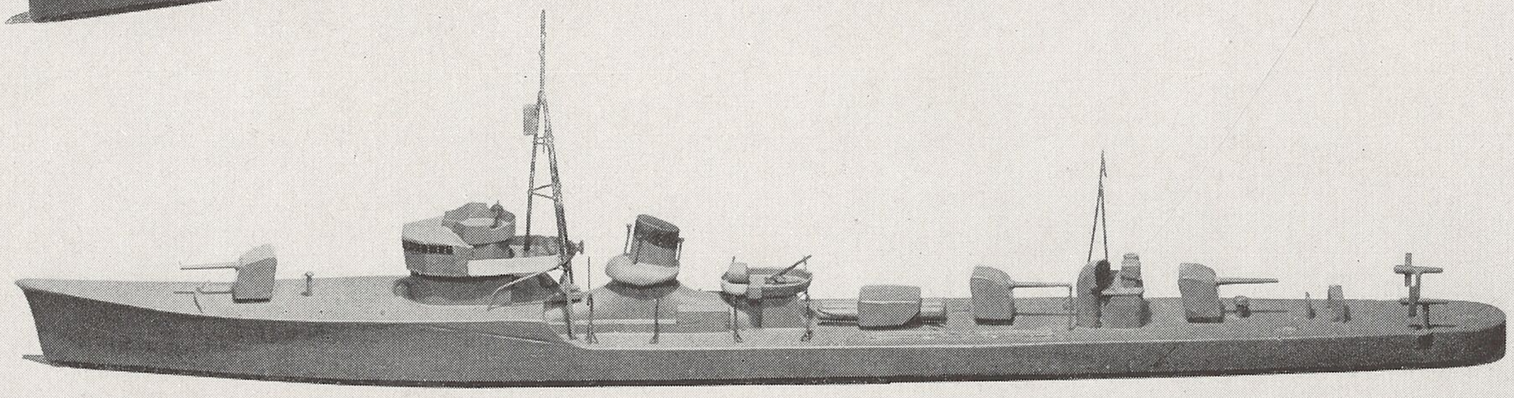

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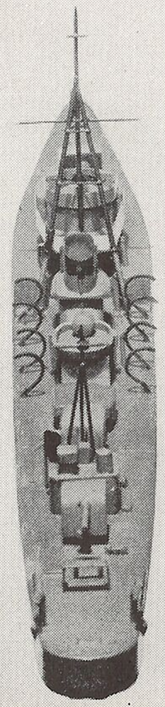
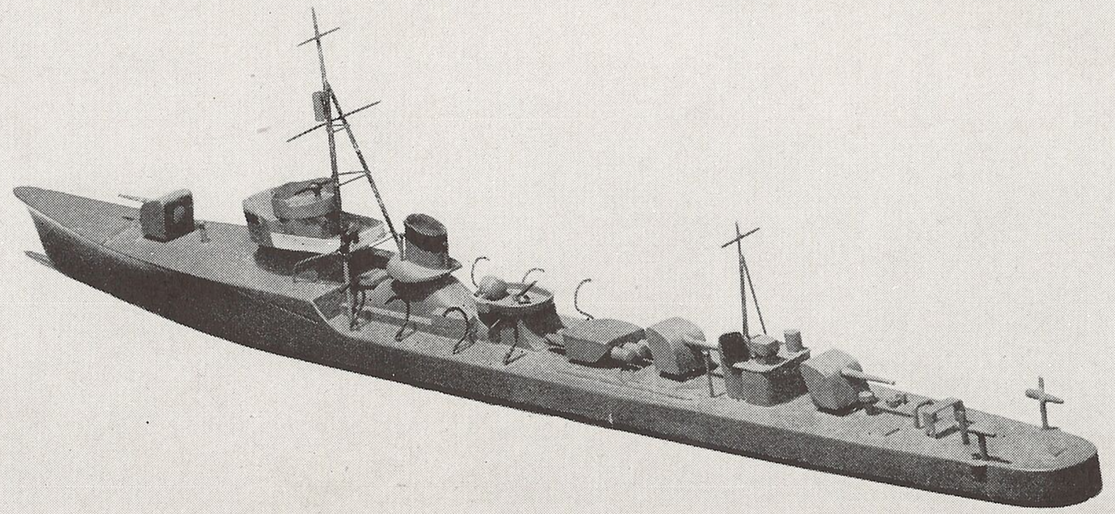


225°

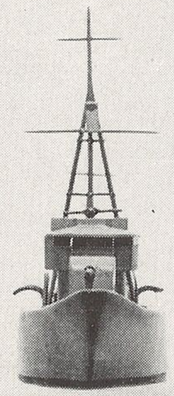


CHIDORI CLASS—TB 1-4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943 RESTRICTED

TARGET ANGLES

0°



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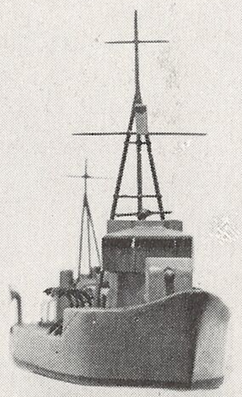
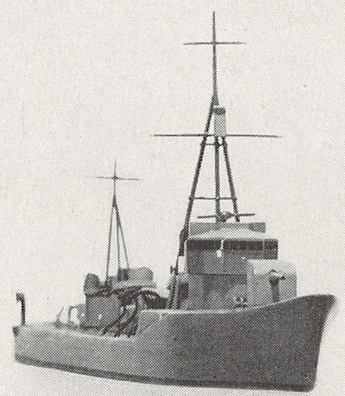
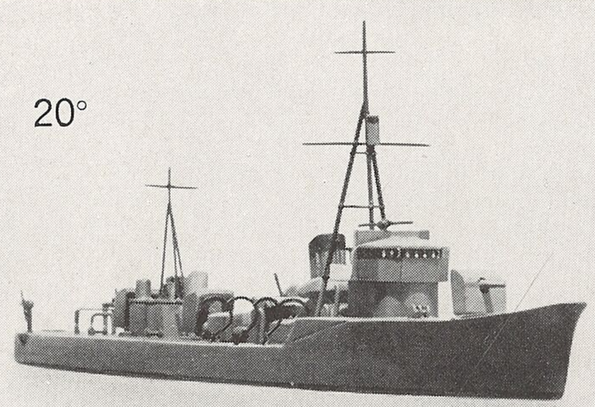


10°



20°



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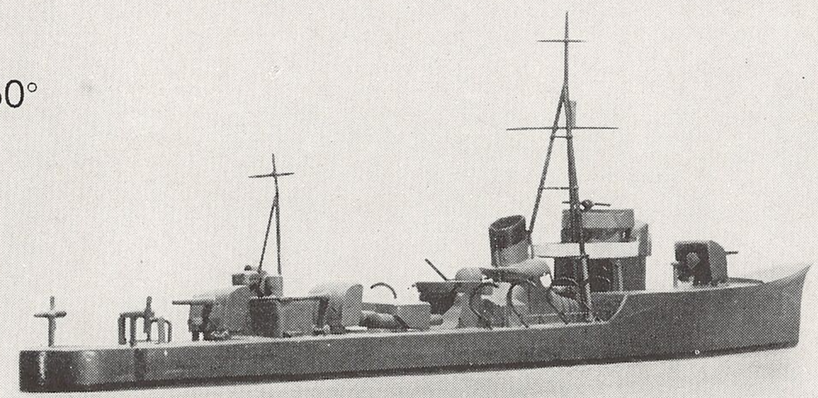

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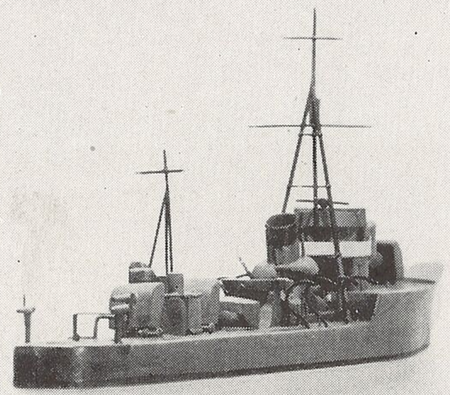

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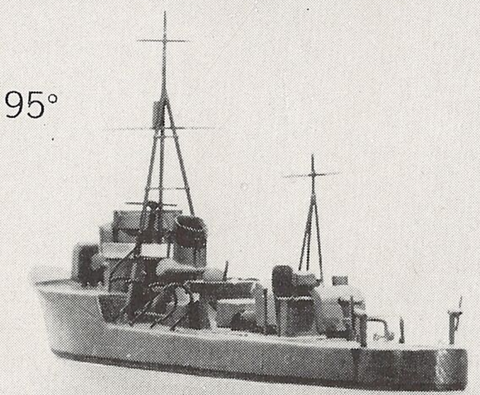

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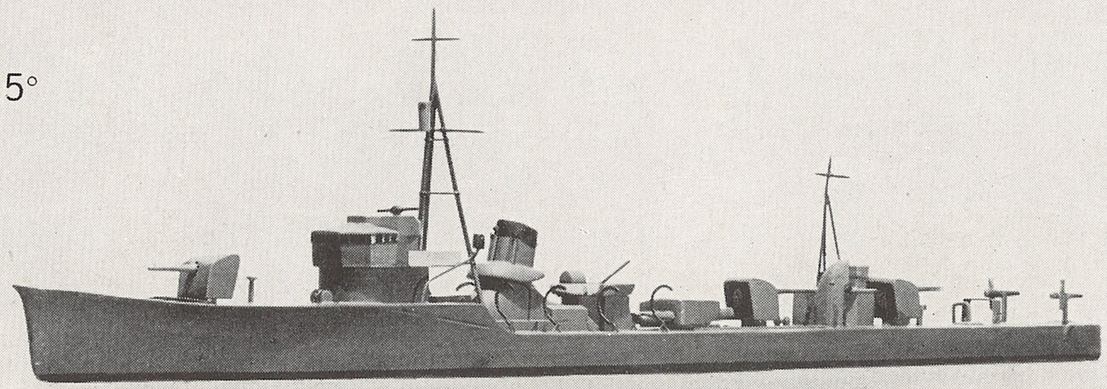

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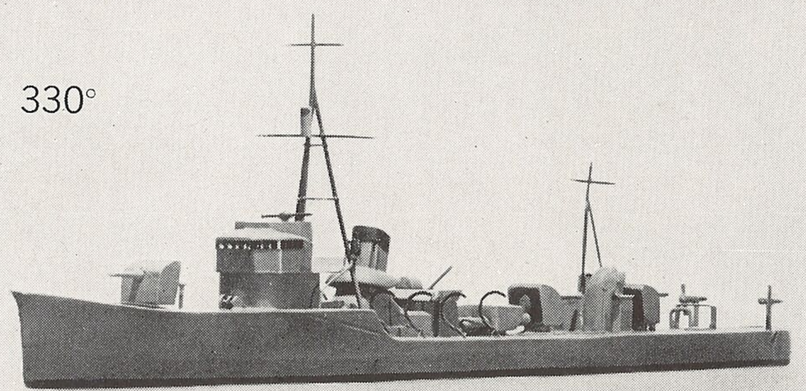
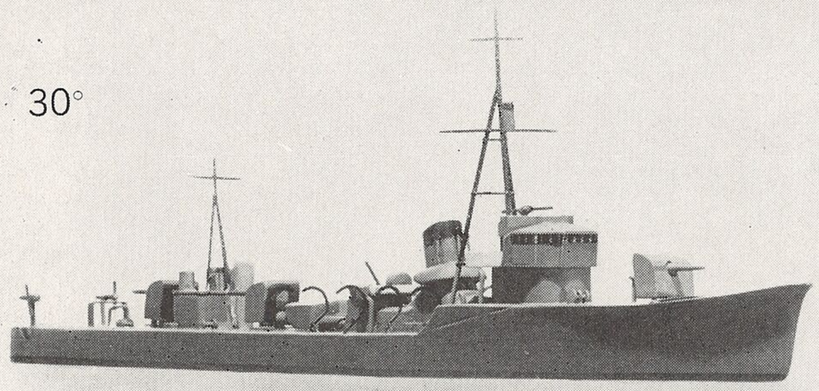


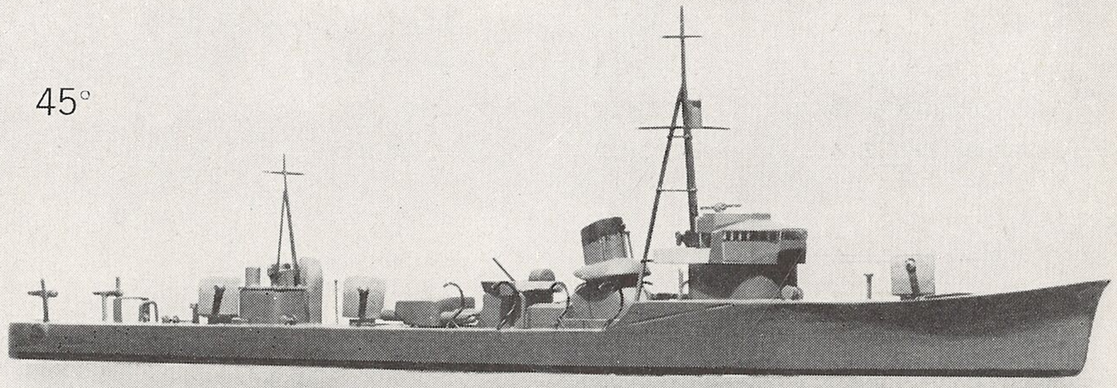
KNOTS	RPM	KNOTS	RPM	KNOTS	RPM	KNOTS	RPM
	400		300		200		100
	375		275		175		75
	350		250		150		50
	325		225		125		25

ONI 41-42

30°



45°



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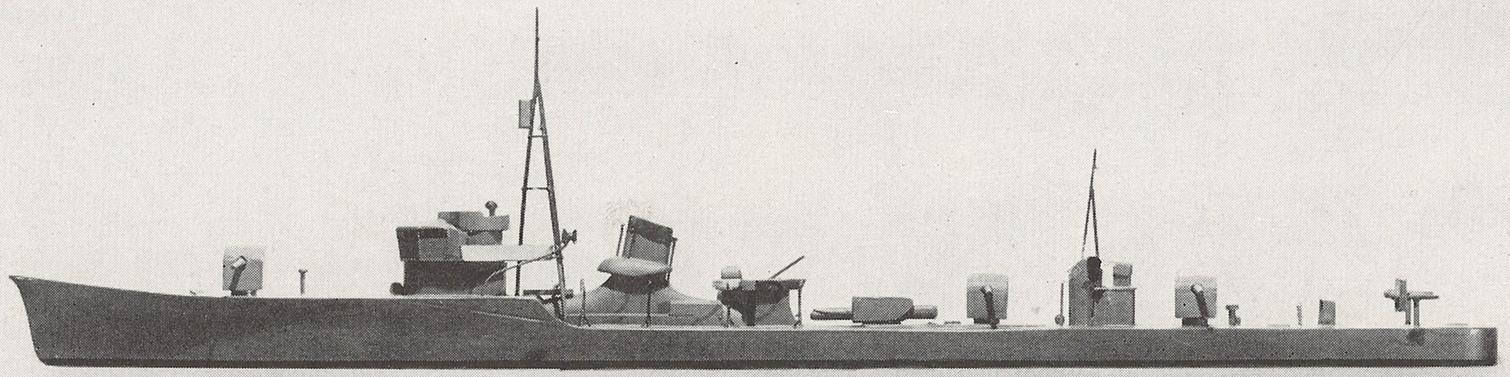
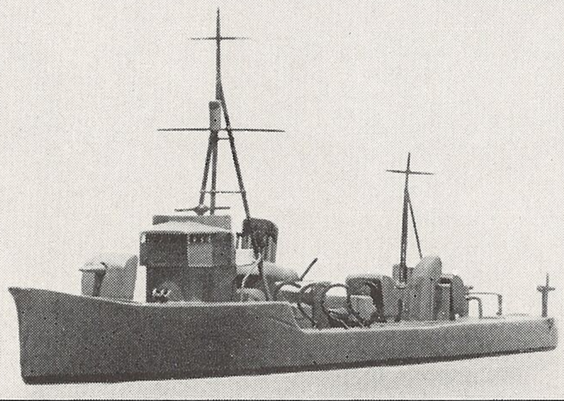


340°



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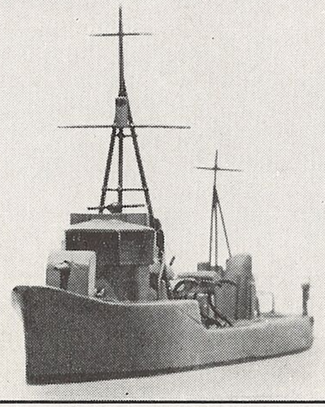
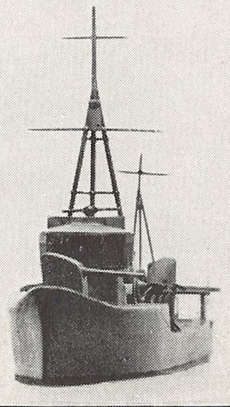


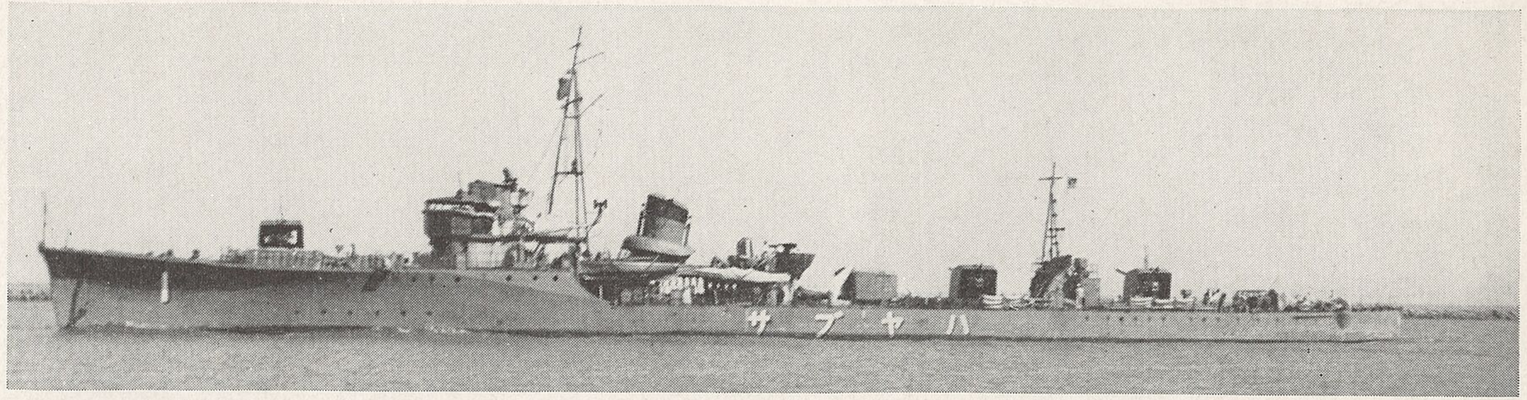
355°



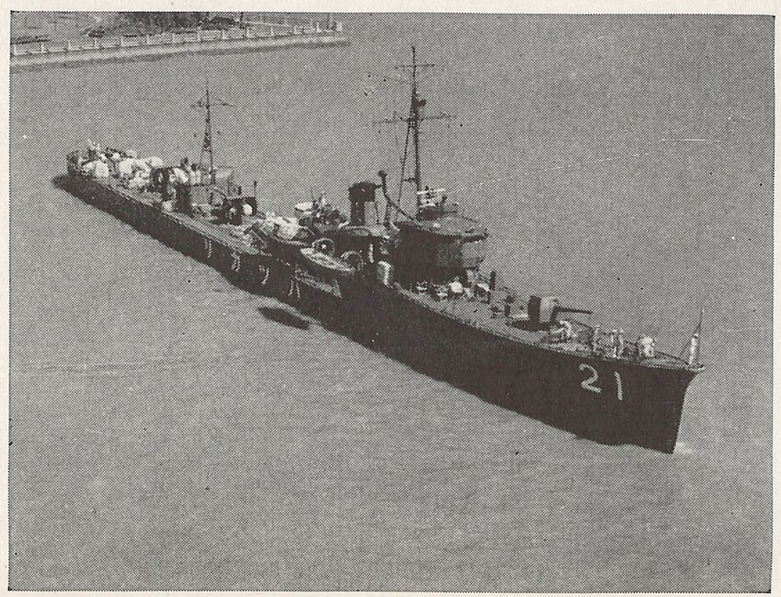
CHIDORI CLASS—TB 1-4

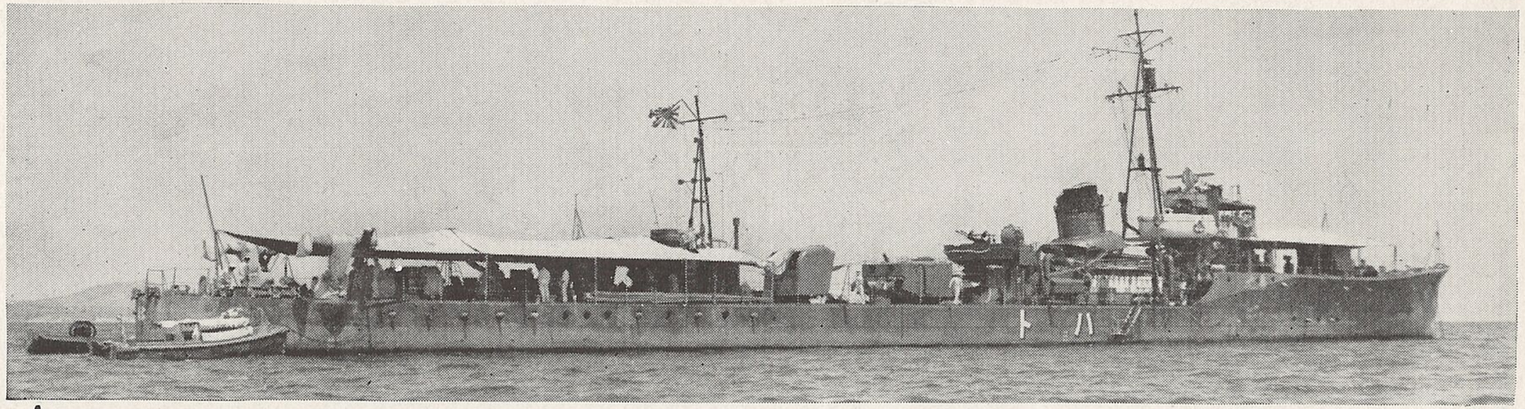
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

CHIDORI CLASS	BEGUN	COMPLETED
CHIDORI— TB 1	10/13/31	11/20/33
MANAZURU—TB 2	12/22/31	11/31/34
TOMOZURU—TB 3	11/11/32	2/24/34
HATSUKARI—TB 4	4/ 6 /33	7/15/34
OTORI CLASS		
OTORI— TB 5	11/ 8 /34	10/10/36
HAYABUSA— TB 6	12/19/34	12/27/36
HIYODORI— TB 7	11/26/34	12/20/36
KASASAGI— TB 8	3/ 4 /35	1/15/37
HATO— TB 9	5/28/36	8/ 7 /37
SAGI— TB 10	5/20/36	7/31/37
KARI— TB 11	5/11/36	9/20/37
KIJI— TB 12	10/24/35	7/31/37



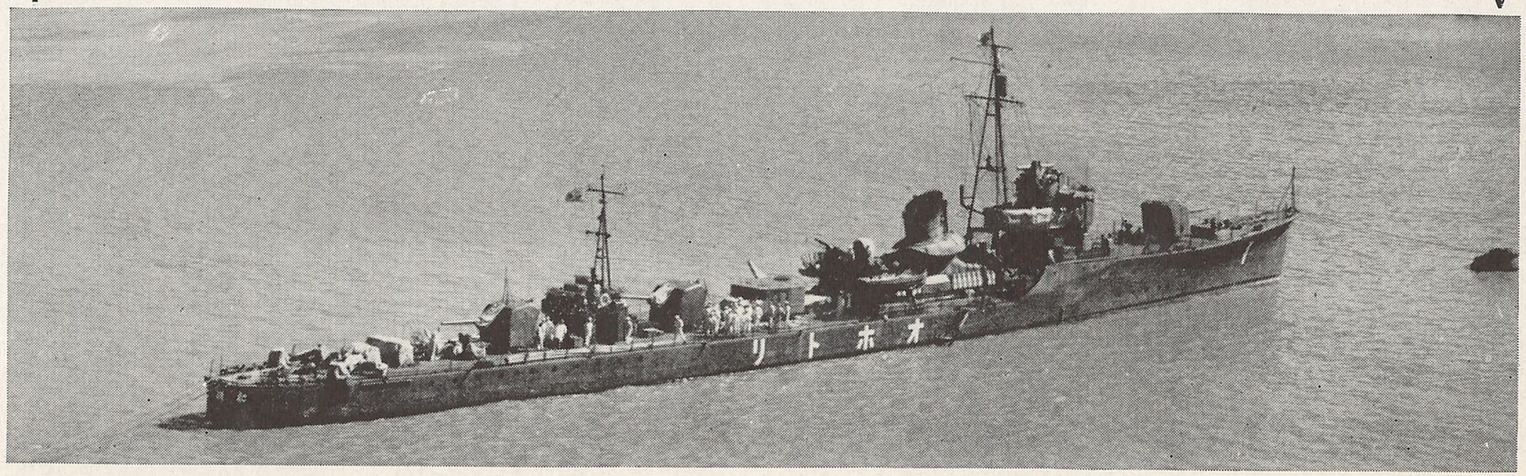
↓ HATSUKARI—TB 4 8/18/37





↑ HATO—TB 9—12/1/39

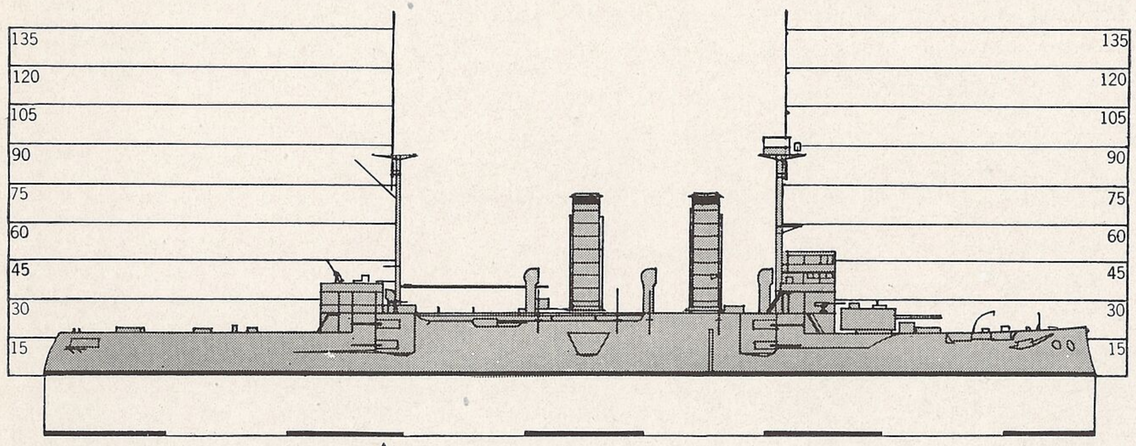
OTORI—TB 5—8/18/37 ↓



AUXILIARIES

CM—MINELAYERS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



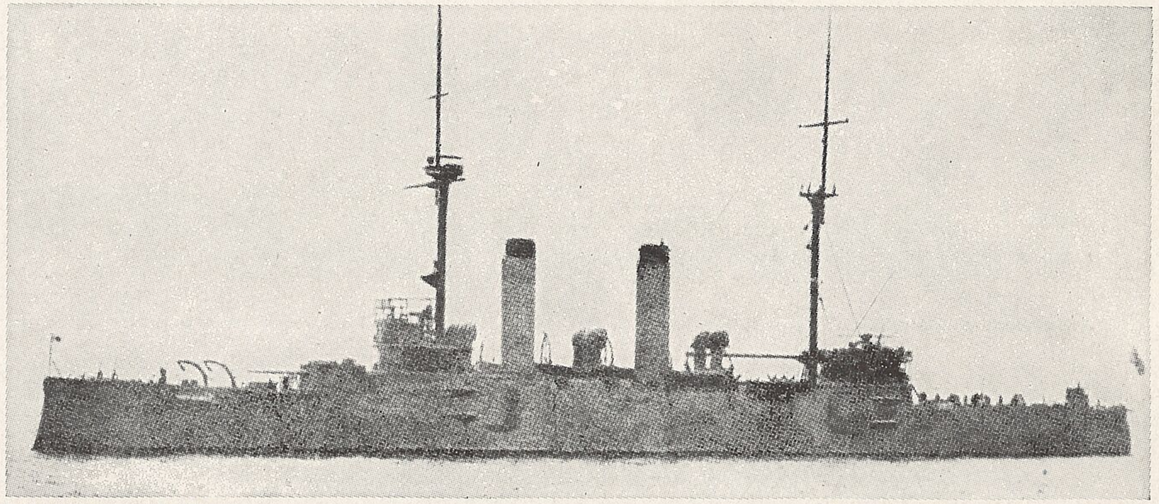
TOKIWA—CM 1 EX-OCA

DIMENSIONS—442′ OA x 67′ x 24′4″ (MEAN)

DISPLACEMENT—9,240 TONS (STANDARD)

ARMAMENT	MAX. ELEV	MAX RANGE (HOR.)	MAX RANGE (VER.)
2–8″ (40)	20°	16,000 YD.	
8–6″ (40)	20°	14,200 YD	
1–3″ (40)	85	9,000 YD	20 000 FT
2–3″ (40)	45°	9,000 YD.	

450 MINES CARRIED



COMPLETED 1898 **REFITTED AS CM—1929**

PROTECTION

BELT— 3½″ TO 7″ DECK—2″ TURRETS—6′

CASEMATES—6′ CONNING TOWER—14″

PROPULSION

MACHINERY— TWO RECIPROCATING TRIPLE EXPANSION

BOILERS— SIXTEEN MIYABARA

FUEL— COAL, 1,400 TONS

DESIGNED HP— 18,248

MAXIMUM SPEED—21 KNOTS @ 153 R.P.M.

KATSURIKI—CM 2 **COMPLETED 1917**

DIMENSIONS—260′1″ OA x 39′ x 13′6″ (MEAN)

DISPLACEMENT—1,540 TONS (STANDARD) 2,000 TONS (NORMAL)

ARMAMENT	MAX ELEV.	MAX. RANGE (HOR.)	MAX RANGE (VER.)
3–3″ (40) AA	85°	9,000 YD	20,000 FT.

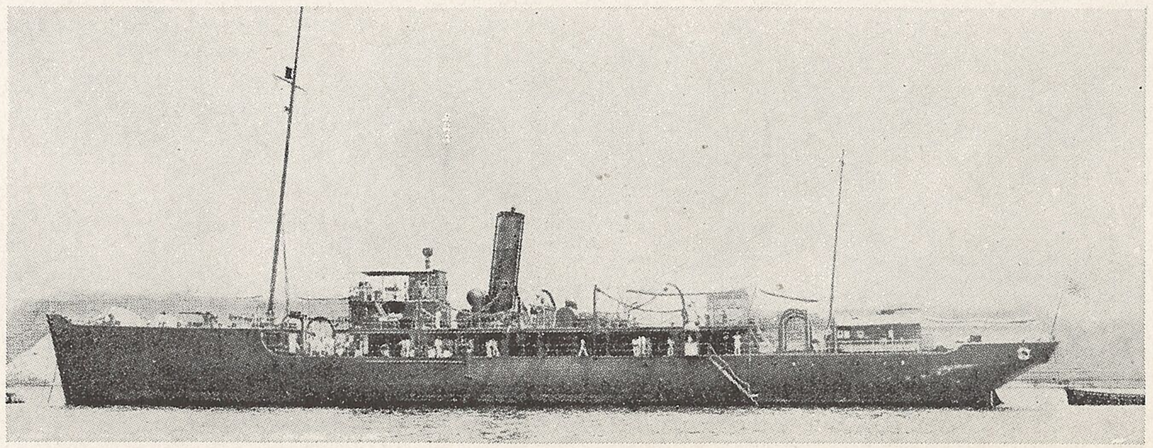
PROPULSION

MACHINERY— TWO SETS TRIPLE EXPANSION RECIPROCATING

FUEL— COAL, 80 TONS

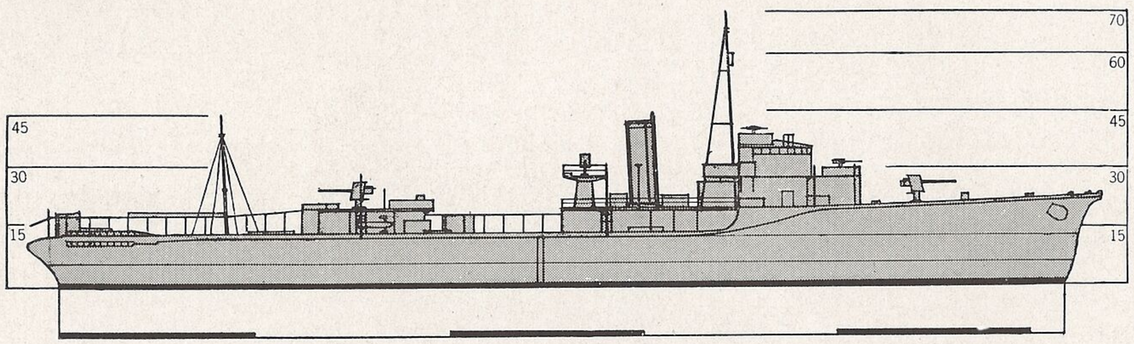
DESIGNED HP— 1,800

MAXIMUM SPEED—13 KNOTS



SHIRATAKA—CM-3

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

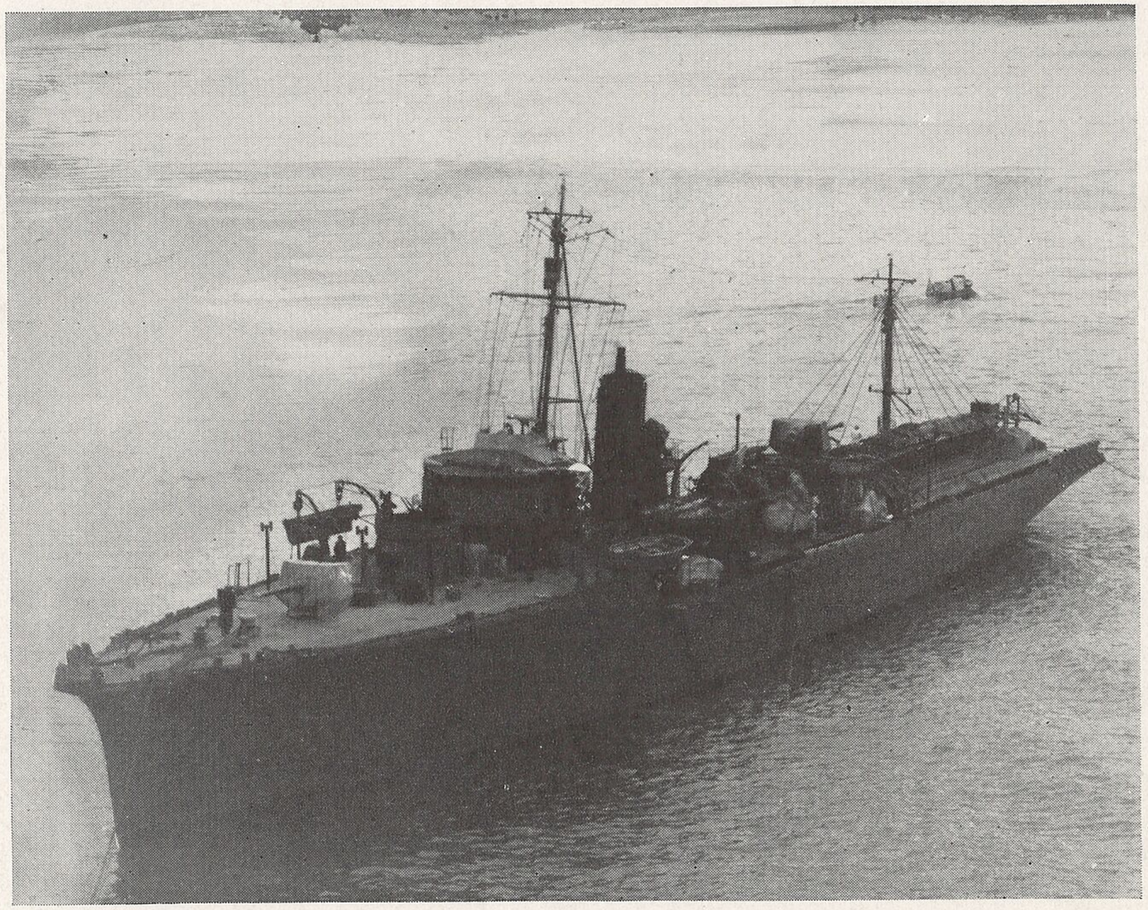


BEGUN–11/24/27; COMPLETED–4/9/29
LENGTH—259′10″ WL BEAM—37′9″ DRAFT—9′2″ (NORMAL)
DISPLACEMENT—1345 TONS (STANDARD); 1405 TONS (NORMAL)

*ARMAMENT	MAX. ELEV.	MAX. RANGE (HORIZONTAL)	MAX. RANGE (VERTICAL)
2–3?—4″.7 (50) AA	85°	19,000 YARDS	25,000 FEET
1— AAMG TWIN			
?— MINES			

EQUIPPED FOR NETLAYING, MINESWEEPING
PROPULSION
MACHINERY—2 TRIPLE EXPANSION RECIPROCATING
BOILERS—2 KAMPON FUEL—OIL
DES. HP—2,200 MAX. SPEED—16 KNOTS
PROPELLERS—2
1/38 ↓

*PROFILE, PHOTOS SHOW OLD MOUNTS



ONI 41-42 RESTRICTED

ITSUKUSHIMA—CM-4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JUNE, 1943

BEGUN 2/2/28 COMPLETED 12/26/29

LENGTH— 339′ OA; 329′ WL
BEAM— 42′
DRAFT— 10′1″ (MEAN)
DISPLACEMENT—1,970 TONS (STANDARD); 2,020 TONS (NORMAL)

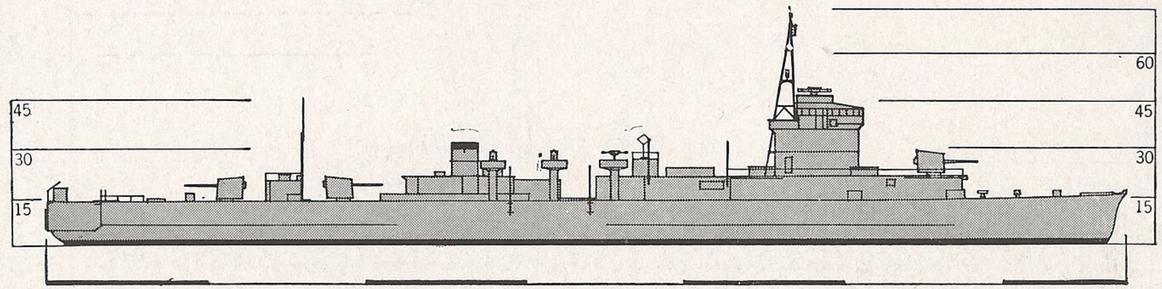
ARMAMENT—	MAX. ELEV.	MAX. RANGE (HOR.)	MAX. RANGE (VER.)
3–5″5 (50)	30°	20,000 YARDS	
2–3″ (40) AA	85°	9,000 YARDS	20,000 FEET

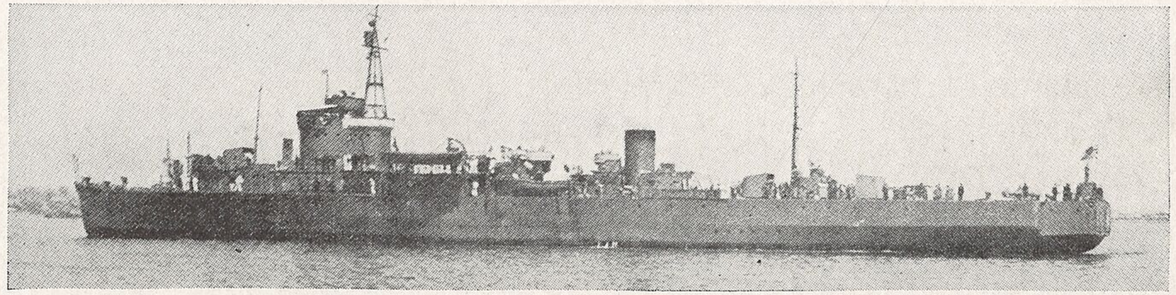
2–D.C. GUNS, ?–DEPTH CHARGES
2–SEARCHLIGHTS
MINES–250 LARGE OR 500 SMALL

PROPULSION—

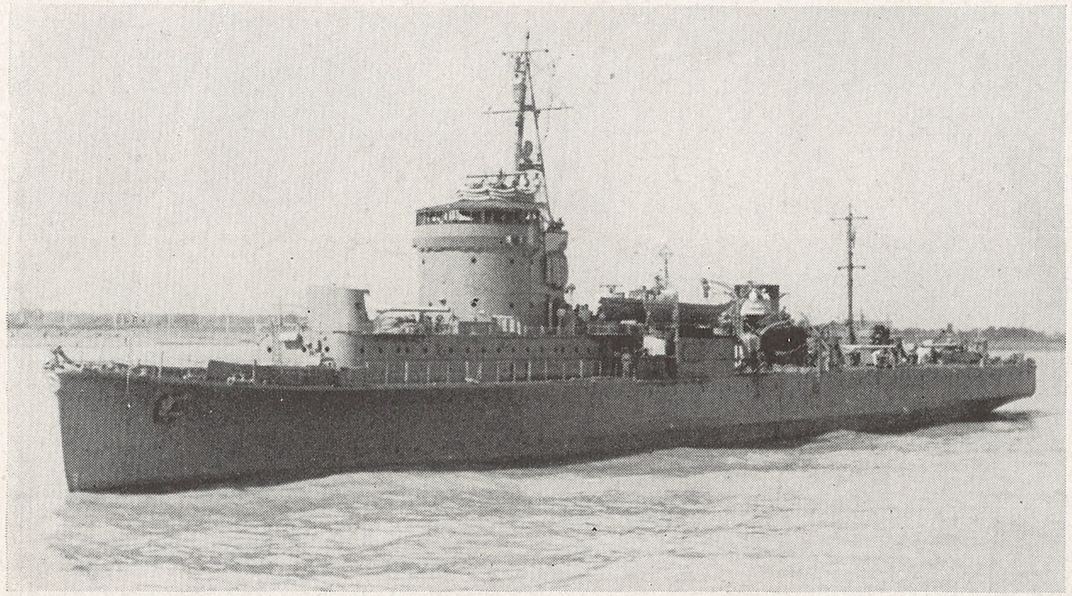
MACHINERY— DIESEL
FUEL— OIL, 300 TONS
DESIGNED HP— 3,000
MAXIMUM SPEED—16 KNOTS
RADIUS— 5,000 MILES @ 16 KNOTS
PROPELLERS— 3

NOTES: UPPER DECK USED FOR MINE STOWAGE.
FOUR LINES OF MINELAYING RAILS EXTEND FROM FORECASTLE TO STERN

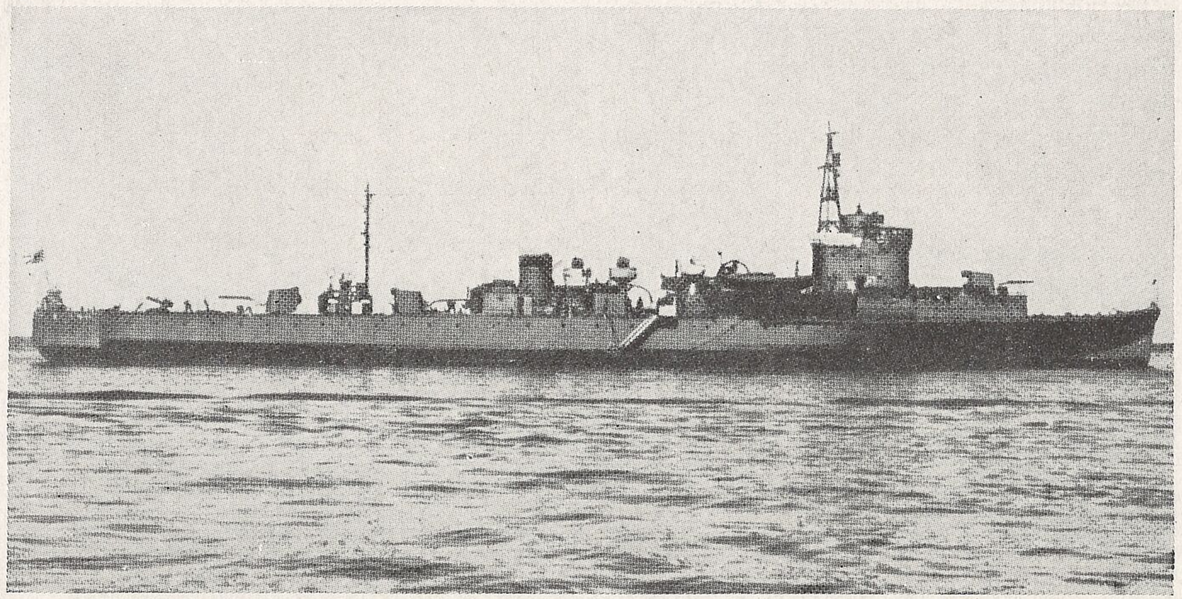




↓ 1937

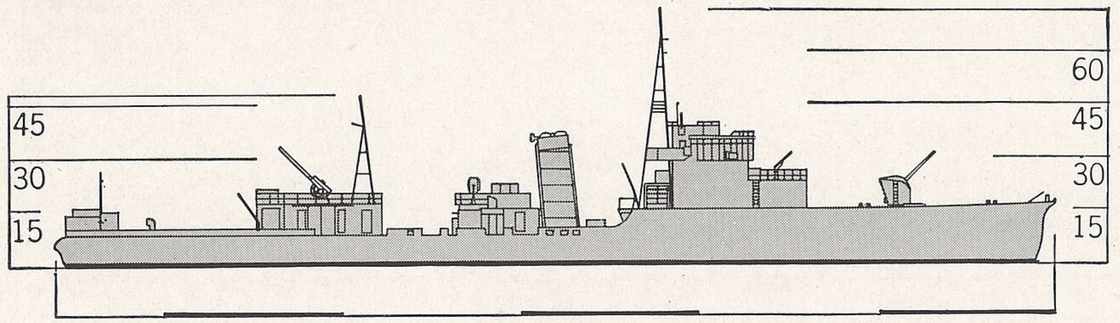


↑ 1930



CM 5—YAEYAMA

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JULY, 1943



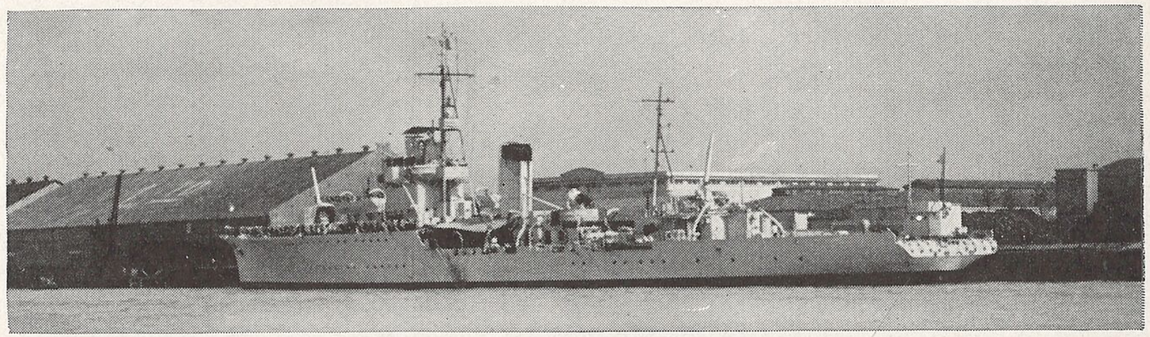
LENGTH— 280'6" OA BEAM—34'8" DRAFT—8'1" (MEAN)

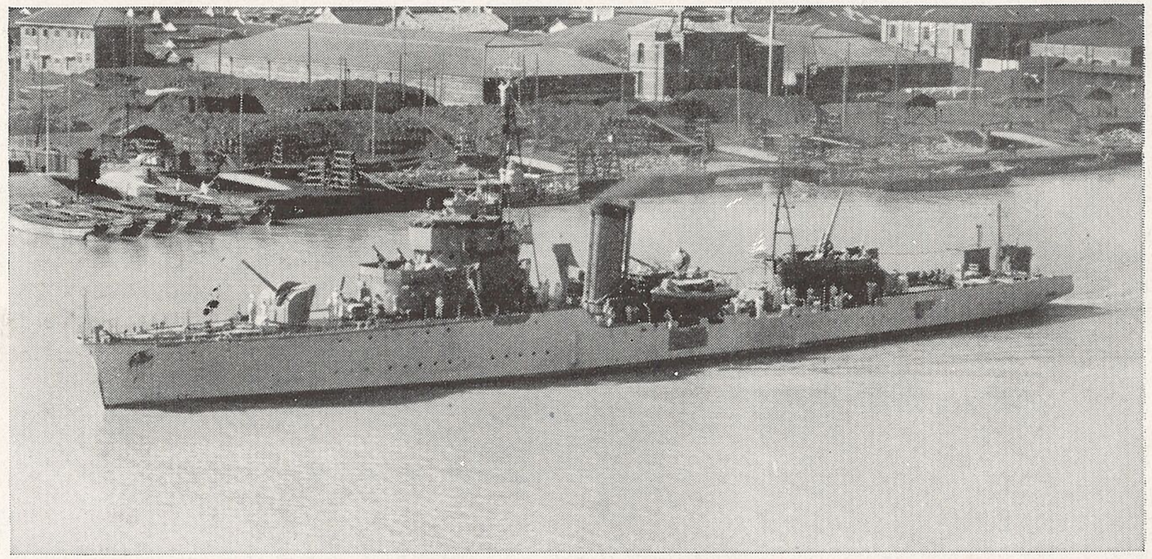
DISPLACEMENT—1,135 TONS (STANDARD)

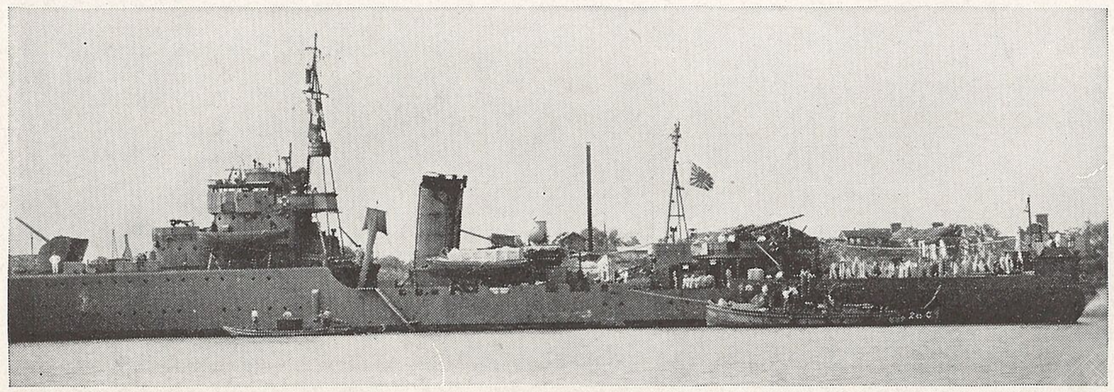
ARMAMENT—		MAX. ELEV.	MAX. RANGE
	2-4".7 AA	85°	21,000 YARDS
	2-3" AA	85°	9,000 YARDS
	?-AAMG		
	?-MINES, DEPTH CHARGES		
	EQUIPPED FOR MINESWEEPING, NET LAYING		

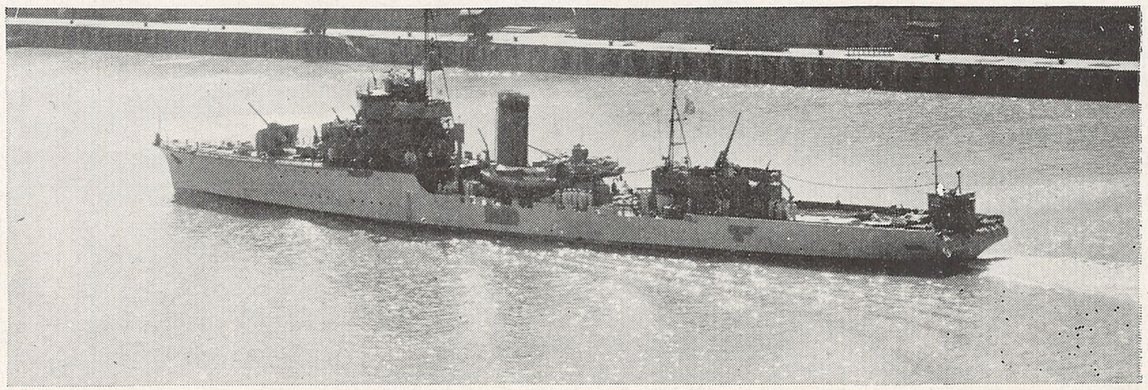
PROPULSION— MACHINERY—DIESEL
BOILERS—
FUEL—
DESIGNED HP—4800
DESIGNED SPEED—20 KNOTS

BEGUN—8/2/30 COMPLETED—8/31/32









ONI 41-42 RESTRICTED

OKINOSHIMA—CM 6

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

ARMAMENT

	MAX. ELEV.	MAX. RANGE
4–5″.5 (50) TWINS	30°	20,000 YDS. HOR.
2–3″ AA	85°	9,000 YDS. HOR. 20,000 FT. VER.

4–AAMG

?–MINES

1–CATAPULT—2 SCOUT OBSERVATION PLANES

PROPULSION

MACHINERY— GEARED TURBINES

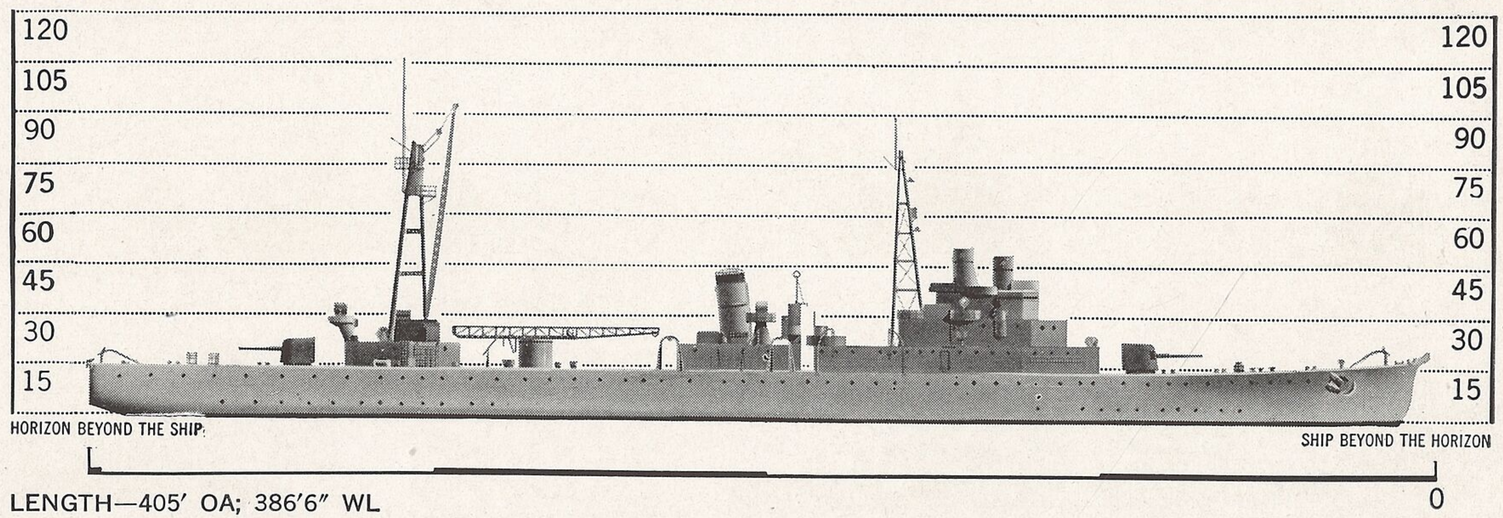
BOILERS— 4 KAMPON

FUEL— OIL

DESIGNED HP— 9,000

MAXIMUM SPEED—20 KNOTS

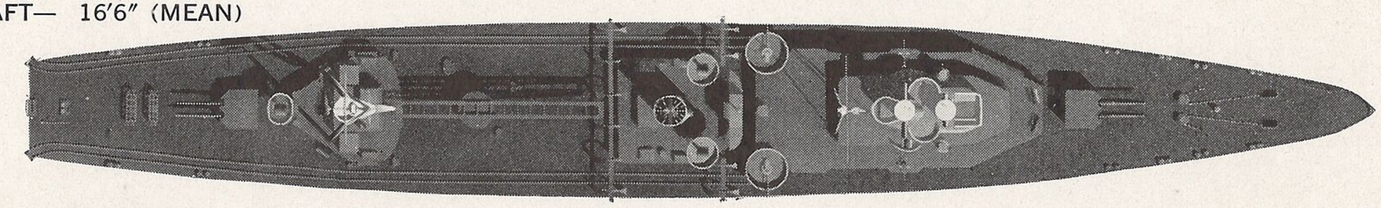
PROPELLERS— 2



LENGTH—405′ OA; 386′6″ WL

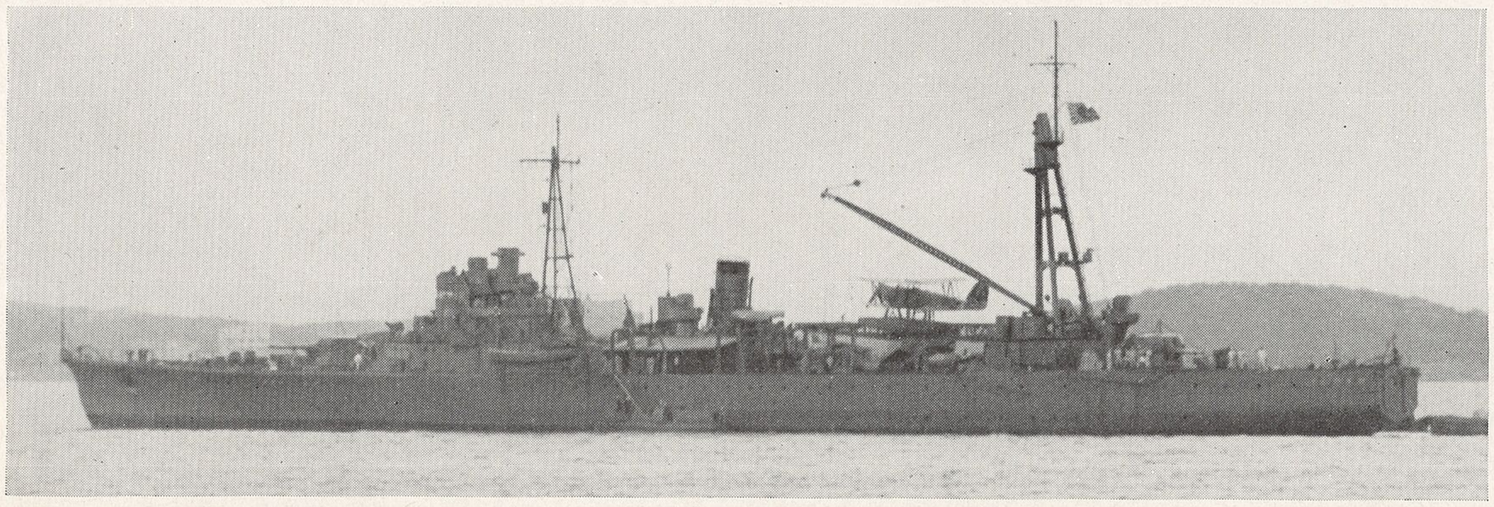
BEAM— 51′3″

DRAFT— 16′6″ (MEAN)

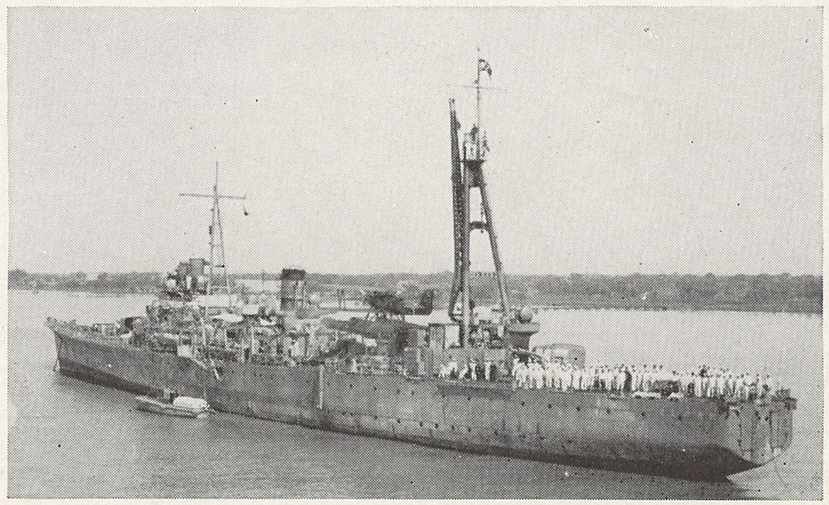


DISPLACEMENT—4400 TONS (STANDARD)

9/3/38 ↓



10/20/37 ↓



OKINOSHIMA—CM 6

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JUNE, 1943

OKINOSHIMA
REPORTED SUNK

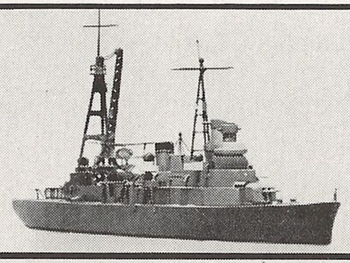
BEGUN
27/9/34

COMPLETED
30/9/36

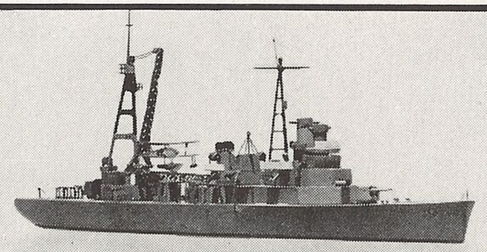
0°

10°

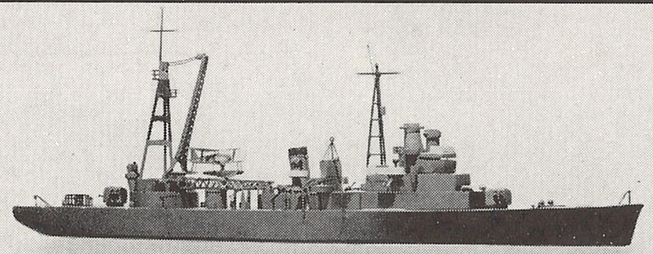
20°



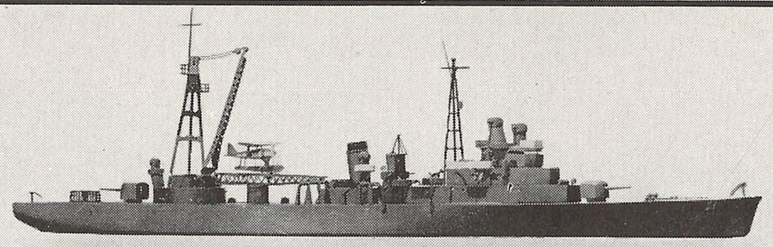
30°

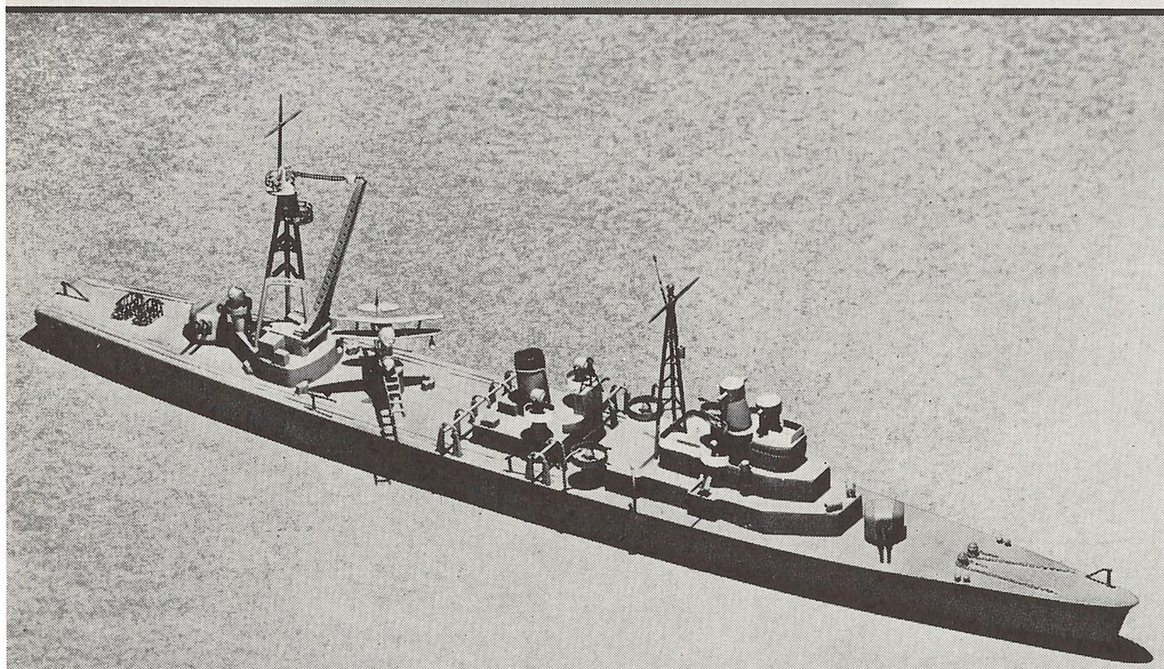


45°

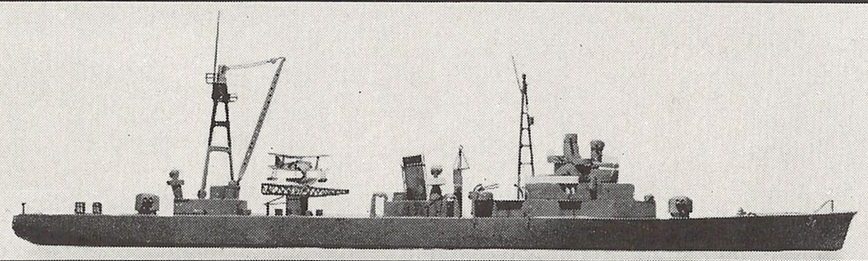


60°

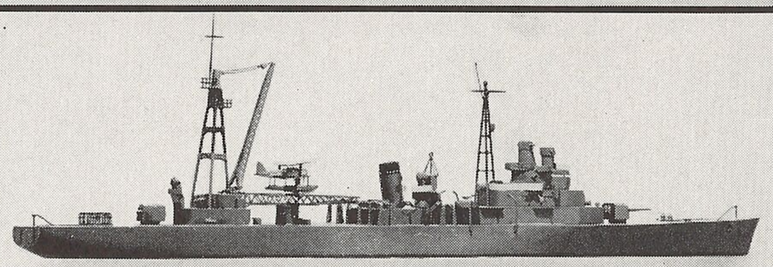




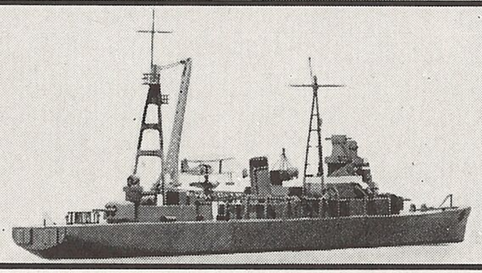
90°



120°



150°



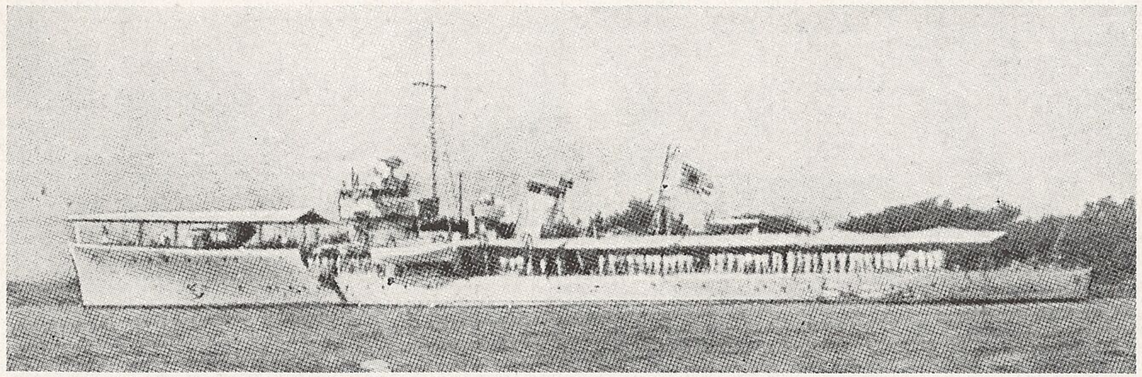
165°

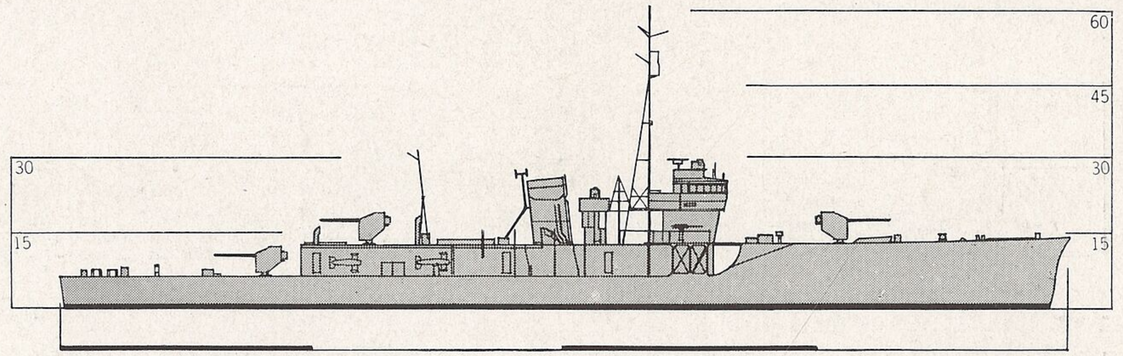
ONI 41-42 RESTRICTED

THE FUNCTION OF THESE VESSELS MAY ALSO BE — PG, AM, ETC.

CM 7-15, XCM

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943





SHIMUSHU CLASS—CM 11-15

LENGTH—200′ OA BEAM— DRAFT—
DISPLACEMENT—1,200? TONS (STANDARD)

ARMAMENT	MAX. ELEV.	MAX. RANGE (HOR.)	MAX. RANGE (VER.)
3–4″7 AA	85°	21,000 YD.	25,000 FT.
4–AAMG	12–DEPTH CHARGES	?–MINES	

EQUIPPED FOR MINESWEEPING
1–SEARCHLIGHT
MAXIMUM SPEED—12 KNOTS

SHIMUSHU CLASS—CM 11-18

	BEGUN	COMPLETED
CM 11—SHIMUSHU	1938–39	1940–41
CM 12—KUNAJIRI	1938–39	1940–41
CM 13—HACHIJO	1938–39	1940–41
CM 14—ISHIGAKI	1938–39	1940–41
CM 15—ETORUFU	1940	1942
CM 16—MATSUWA	1940	1942
CM 17—SADO	1940	1942
CM 18—IKI	1940	1942

HATSUTAKA CLASS—CM 7-10 APPEARANCE UNKNOWN

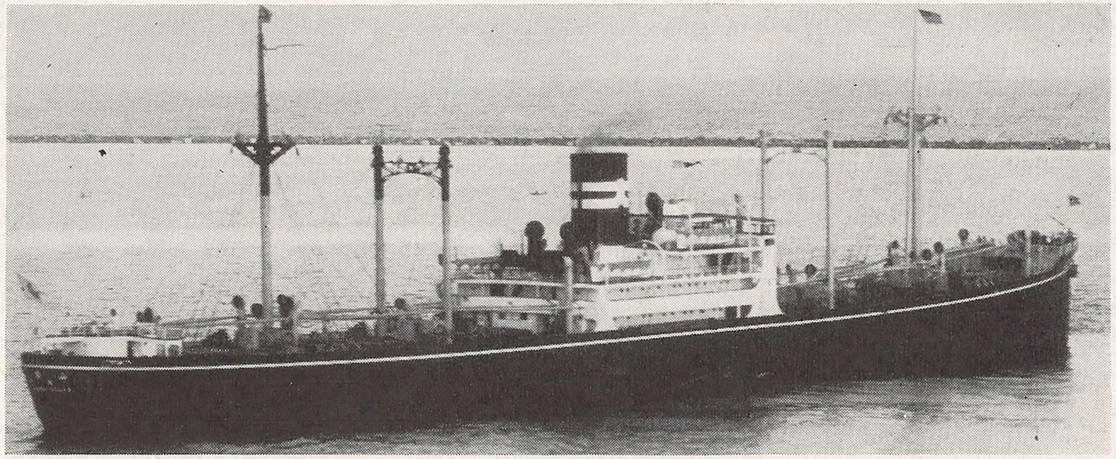
LENGTH—240′7″ OA
BEAM— 25′10″
DRAFT— 8′5″ (MAXIMUM)

DISPLACEMENT—2,000 TONS (NORMAL)

ARMAMENT	MAX. ELEV.	MAX. RANGE (HOR.)
2(?)–4″7 (50)	30°	16,300 YD.
? –MINES, DEPTH CHARGES		

PROPULSION
MACHINERY— DIESEL
FUEL— OIL
DESIGNED HP— 9,000
MAXIMUM SPEED—20 KNOTS

HATSUTAKA CLASS—CM 7-10		BEGUN	COMPLETED
CM–7	HATSUTAKA	1937–38	1942
CM–8	AOTAKA	1937–38	1942
CM–9	WAKATAKA	1937–38	1942
CM–10	TSUGARU	1937–38	1942



XCM-1—EX-TENYO MARU COMPLETED—1935

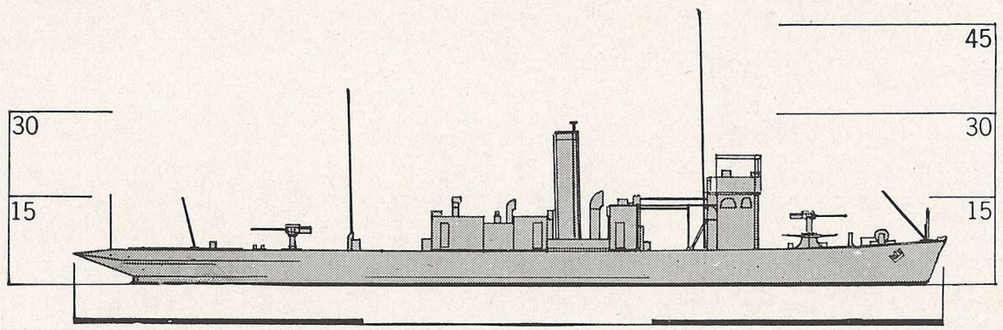
DIMENSIONS— 436′ WL x 59′ x 26′ (LOADED)
DISPLACEMENT—6,850 TONS (GROSS)
ARMAMENT— UNKNOWN MAY MOUNT UP TO 6—5″ OR 6″ GUNS
PROPULSION— NET HP—840 MAXIMUM SPEED—16 KNOTS

FOR SILHOUETTE, SEE SISTERSHIPS, APV-2, 5

COASTAL MINELAYERS—CMc 1-12

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

RESTRICTED **ONI 41-42**



TOSHIMA CLASS—CMc 1-10

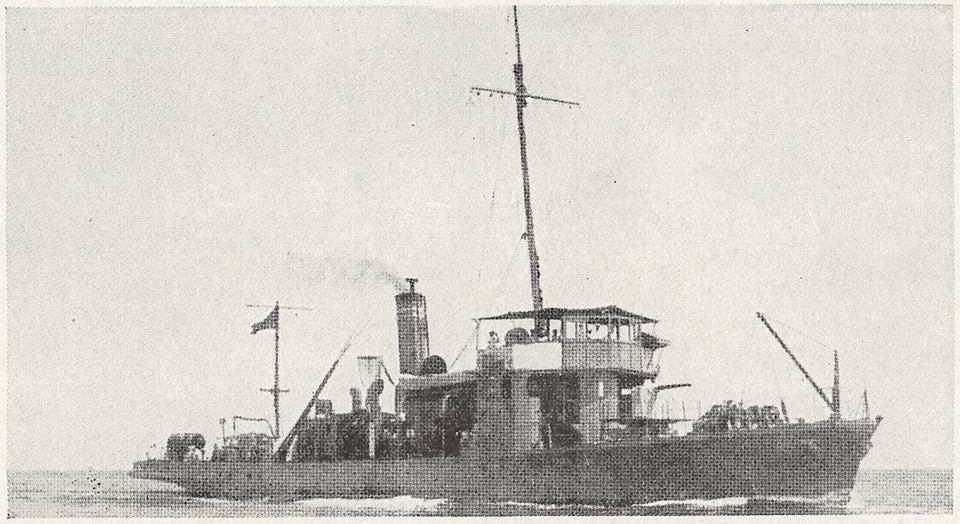
LENGTH—150′ OA BEAM—25′ DRAFT—7′6″ (MEAN)
DISPLACEMENT—430 TONS (STANDARD)

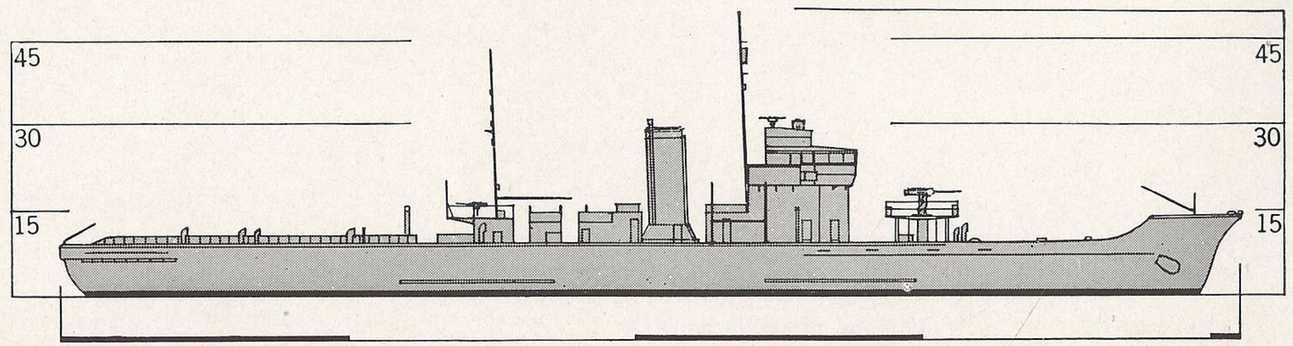
ARMAMENT—	MAX. ELEV.	MAX. RANGE (HOR.)	MAX. RANGE (VER.)
2-3″ (40) AA	85°	9,000 YARDS	20,000 FEET

120 MINES (ESTIMATED)
PROPULSION—
DESIGNED HP—700 DESIGNED SPEED—12 KNOTS
ENDURANCE— 430 MILES @ 12 KNOTS

TOSHIMA—	CMc 1	KATASHIMA—	CMc 6
KUROSHIMA—	CMc 2	KUROKAMI—	CMc 7
KATOKU—	CMc 3	ENOSHIMA—	CMc 8
ASHIKAZI—	CMc 4	KUROZAKI—	CMc 9
ENTO—	CMc 5	NINOSHIMA—	CMc 10

COMPLETED—(1915-1920)





TSUBAME CLASS—CMc 11, 12

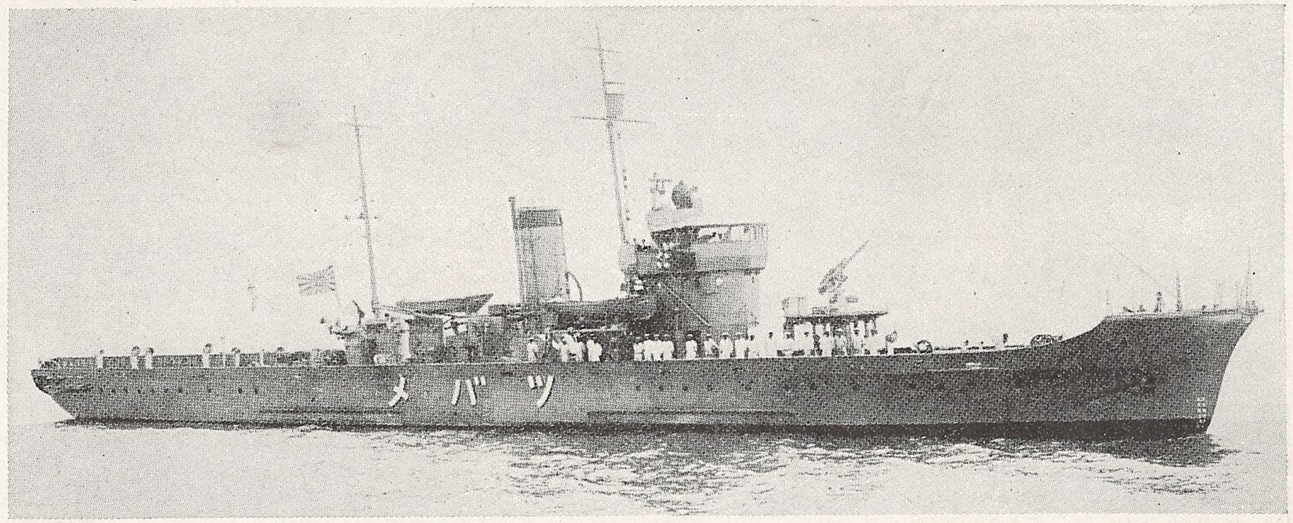
LENGTH—206′8″ OA BEAM—23′6″ DRAFT—6′4″ (MEAN)
DISPLACEMENT—450 TONS (STANDARD)—570 TONS (NORMAL)

ARMAMENT—	MAX. ELEV.	MAX. RANGE (HORIZONTAL)	MAX. RANGE (VERTICAL)
1-3″ (40) AA	85°	9,000 YARDS	20,000 FEET

1-M.G.
?-MINES
PROPULSION
MACHINERY —TWO RECIPROCATING TRIPLE EXPANSION
DESIGNED HP— 2,500
DESIGNED SPEED—19 KNOTS

	BEGUN	COMPLETED
TSUBAME—CMc 11	9/28	6/29
KAMOME— CMc 12	10/28	7/29/29

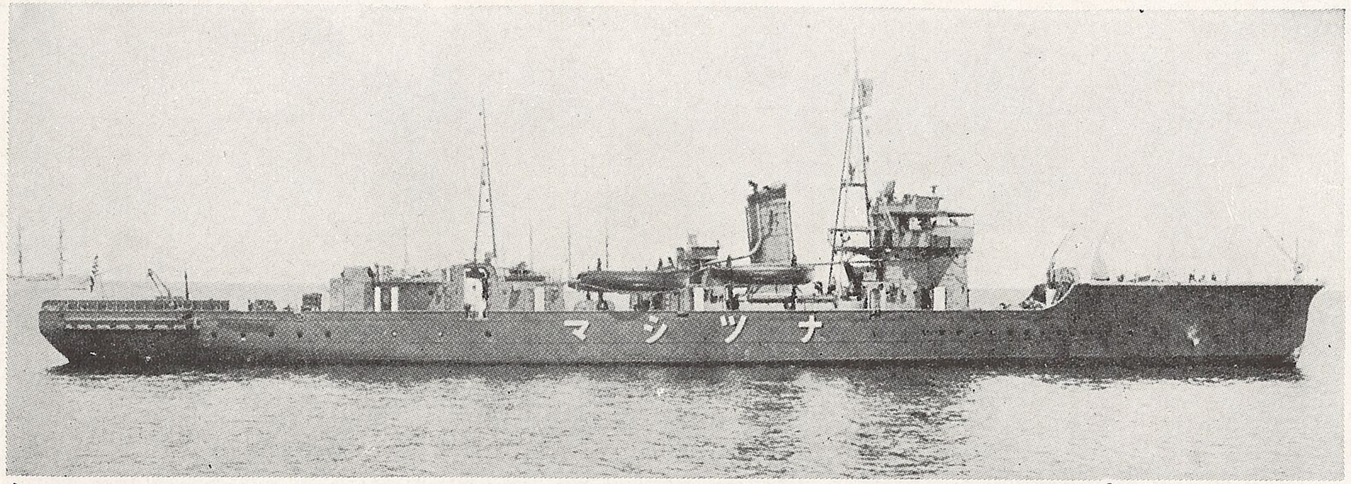
NOTE: EQUIPPED FOR NET-LAYING



ONI 41-42

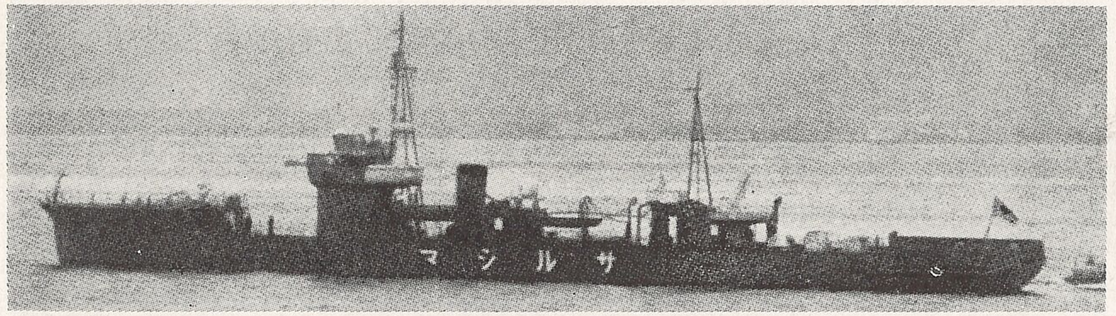
COASTAL MINELAYERS—CMc 13-31

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



↑ NATSUSHIMA

SARUSHIMA ↓



NATSUSHIMA CLASS—CMc13-15

LENGTH—237′0″ OA—225′2″ WL
BEAM— 24′6″
DRAFT— 5′8″ (MAXIMUM)

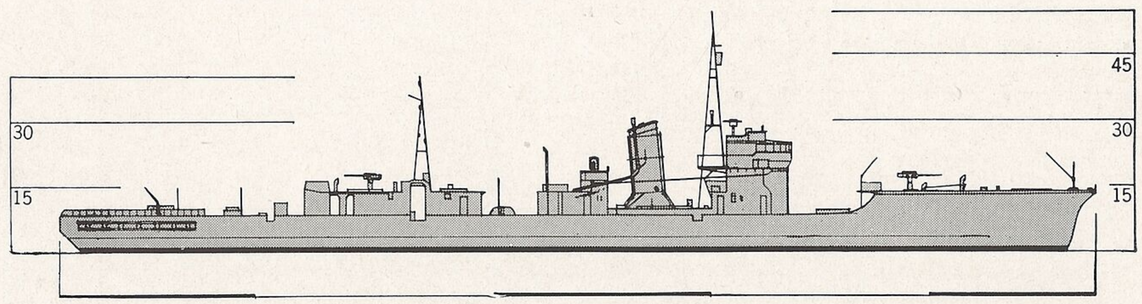
DISPLACEMENT—443 TONS (STANDARD)

ARMAMENT	MAX. ELEV.	MAX RANGE (HOR.)	MAX. RANGE (VER.)
2-3″ (40) AA	85°	9,000 YD.	20,000 FT.
1-AAMG			
45 MINES			

PROPULSION
MACHINERY—TWO SETS OF DIESELS FUEL— OIL
DES. HP— 2,300 (SARUSHIMA 2,100) MAX. SPEED—19 KNOTS

	BEGUN	COMPLETED
NATSUSHIMA—CMc 13	12/24/31	11/33
NASAMI—CMc 14	1932	8/20/34
SARUSHIMA—CMc 15	1932	8/20/34

NOTE—NASAMI EQUIPPED FOR MINESWEEPING



SOKUTEN CLASS—CMc 16-20 APPEARANCE UNKNOWN

LENGTH—240′7″ OA
BEAM— 25′10″
DRAFT— 8′5″ (MAXIMUM)

DISPLACEMENT—720 TONS (STANDARD)

ARMAMENT	MAX. ELEV.	MAX. RANGE (HOR.)	MAX. RANGE (VER.)
2-4.7 (50)	85°	17,500 YD.	25,000 FT.
?-AAMG, DEPTH CHARGES, MINES			

PROPULSION
MACHINERY— DIESELS
FUEL— OIL
DES'IGNED HP— 3,600
DESIGNED SPEED—20 KNOTS

	BEGUN	COMPLETED
SOKUTEN— CMc 16	1937	8/22/39
SHIRAKAMI—CMc 17	9/3/37	1939
KYOSAI— CMc 18	1938	1939
NARIU— CMc 19	1938	8/28/39
UKISHIMA— CMc 20	1938	1939

YURISHIMA CLASS—CMc 21-31 APPEARANCE & CHARACTERISTICS UNKNOWN

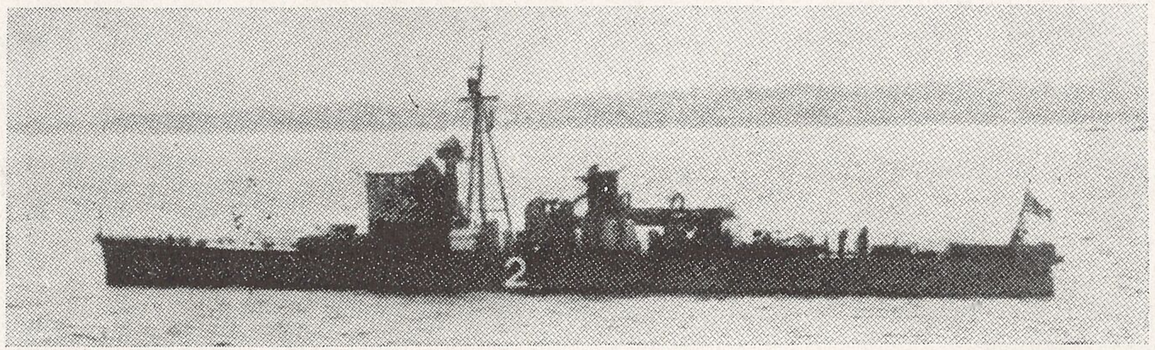
DISPLACEMENT—700 TONS (E)

YURISHIMA— CMc 21
NUWASHIMA—CMc 22
MAESHIMA— CMc 23
MOROSHIMA—CMc 24
HIRASHIMA— CMc 25
TAKASHIMA—CMc 26
ARAISAKI— CMc 27
ISHIZAKI— CMc 28
BOKO— CMc 29
SAGISAKI— CMc 30
SAISHU— CMc 31

COMPLETED—1941-1942

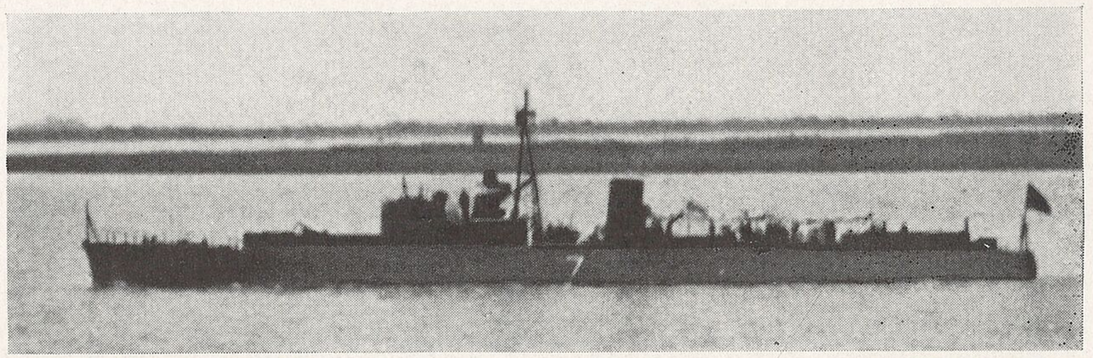
PC—SUBMARINE CHASERS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



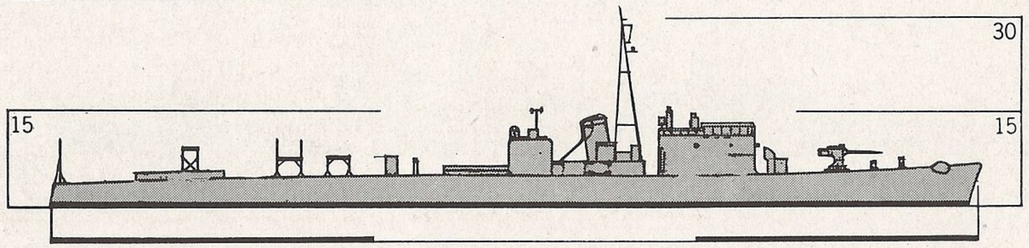
PC-1 CLASS—NO. 1, 2 COMPLETED 1934

DIMENSIONS— 210'6" WL x 19'9" x 5' (MAXIMUM)
DISPLACEMENT— 300 TONS (STANDARD)
ARMAMENT— 4-AAMG
1-D. C. GUN
?-DEPTH CHARGES
DESIGNED HP— 3400
DESIGNED SPEED—24 KNOTS



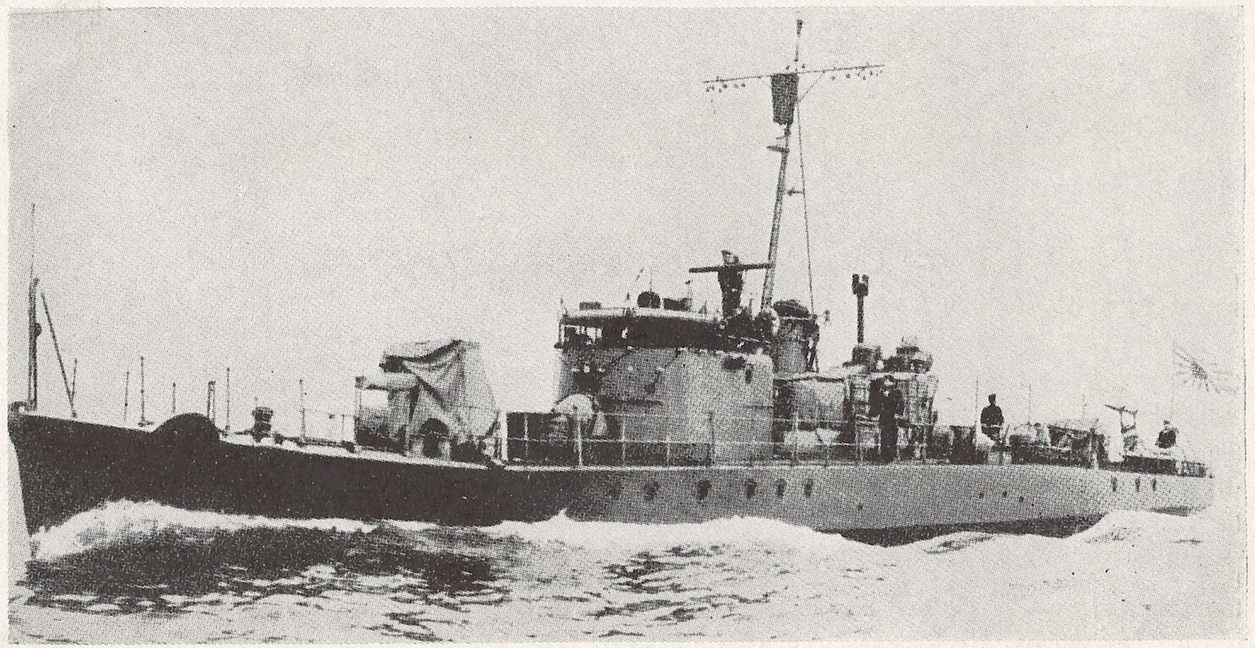
PC-3-39 CLASS—NO. 3-39 COMPLETED 1938-42

DIMENSIONS— 176' WL x 18'2" x 6'6" (MAXIMUM)
DISPLACEMENT— 270 TONS (STANDARD)
ARMAMENT— 4-AAMG
1-D.C. GUN
?-DEPTH CHARGES
DESIGNED HP— 3200
DESIGNED SPEED—20 KNOTS



PC—40-44 CLASS—NO. 51-55 COMPLETED 1937-42

DIMENSIONS— 144'4" OA x 15'3" x 5'6" (MAXIMUM)
DISPLACEMENT— 170 TONS (STANDARD)
ARMAMENT— 4-AAMG
?-D.C. GUNS
?-DEPTH CHARGES
DESIGNED HP— 3000
MAXIMUM SPEED—33 KNOTS →



PC 45-47 CLASS—NO. 101-103 COMPLETED 1939-42

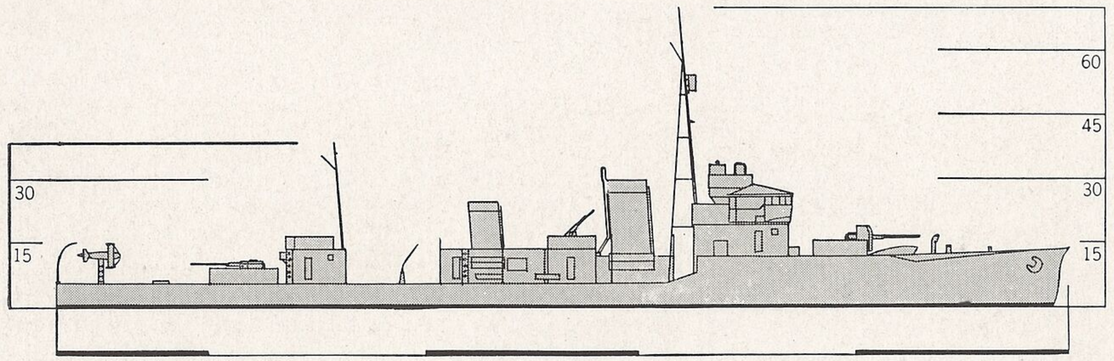
NO DATA—APPEARANCE UNKNOWN

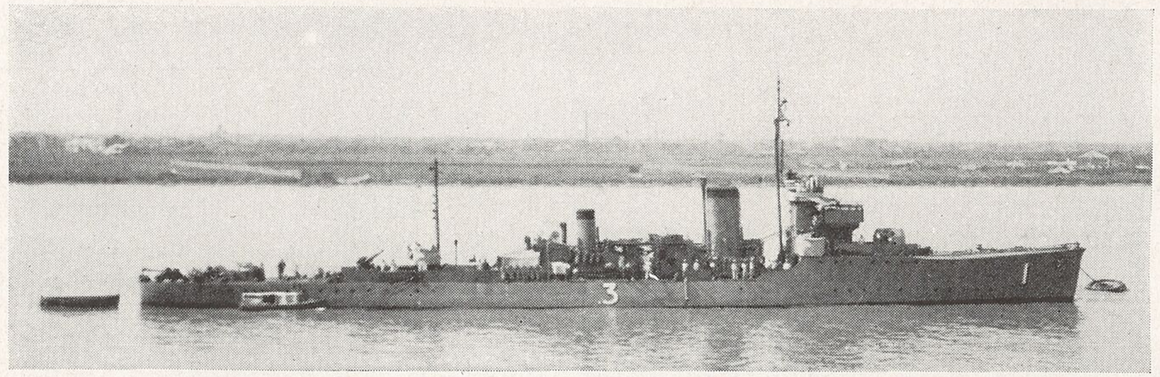
PC 40-47—ALSO DESIGNATED AS XPC—SPECIAL SUBCHASERS

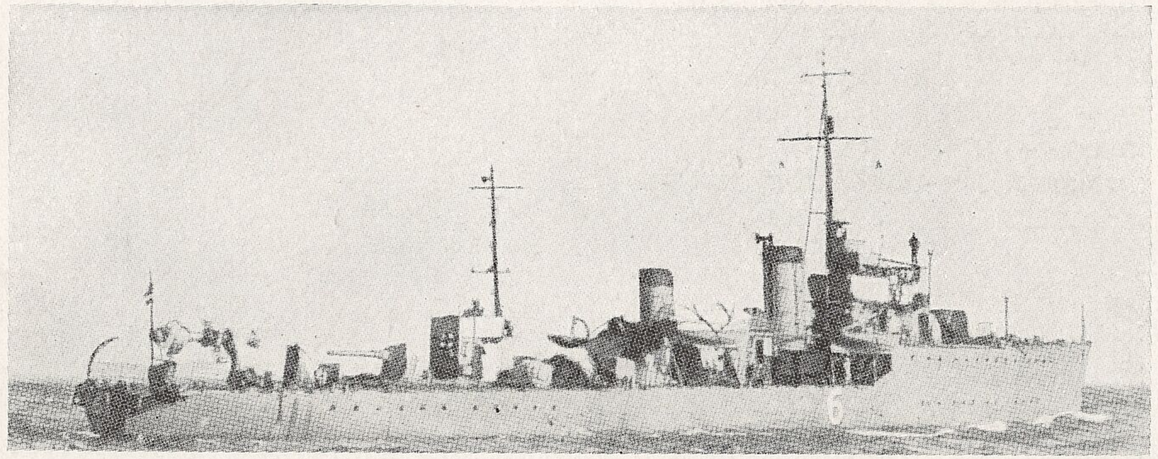
ONI 41-42 RESTRICTED

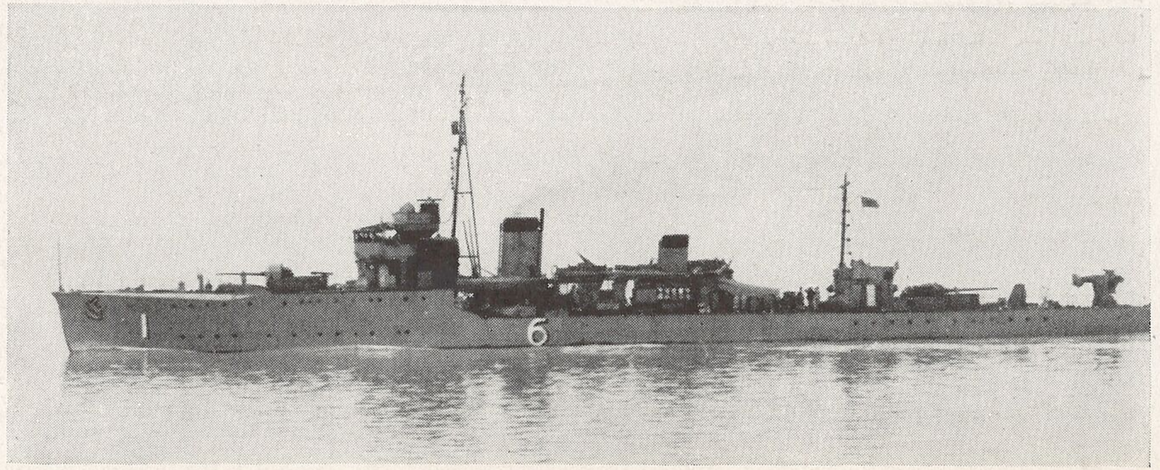
NO. 1 CLASS—AM 1-6

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JUNE, 1943









LENGTH—235′ OA BEAM—26′4″ DRAFT—7′6″

DISPLACEMENT— 615 TONS (STANDARD); 700 TONS (NORMAL)

		MAX. ELEV.	MAX. RANGE
ARMAMENT—	2-4.7″	30°	17,500 YARDS
	1-3″ AA	85°	9,000 YARDS
	?-AAMG		
	2-D. C. GUNS		10 MINES CARRIED

PROPULSION—

MACHINERY— TRIPLE EXPANSION RECIPROCATING

BOILERS— 3 KAMPON

FUEL— COAL, 180 TONS

DESIGNED HP— 4,000

MAXIMUM SPEED— 20 KNOTS

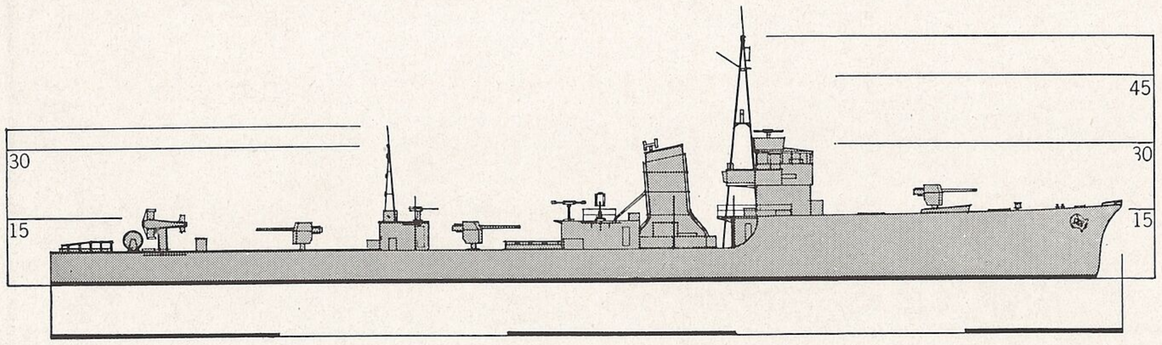
		BEGUN	COMPLETED
NO. 1	AM 1	5/10/22	6/30/23
NO. 2	AM 2	4/13/22	6/30/23
NO. 3	AM 3	8/ 1/22	6/30/23
NO. 4	AM 4	12/ 1/23	4/29/25
NO. 5	AM 5	3/25/28	2/25/29
NO. 6	AM 6	STRICKEN FROM LIST	

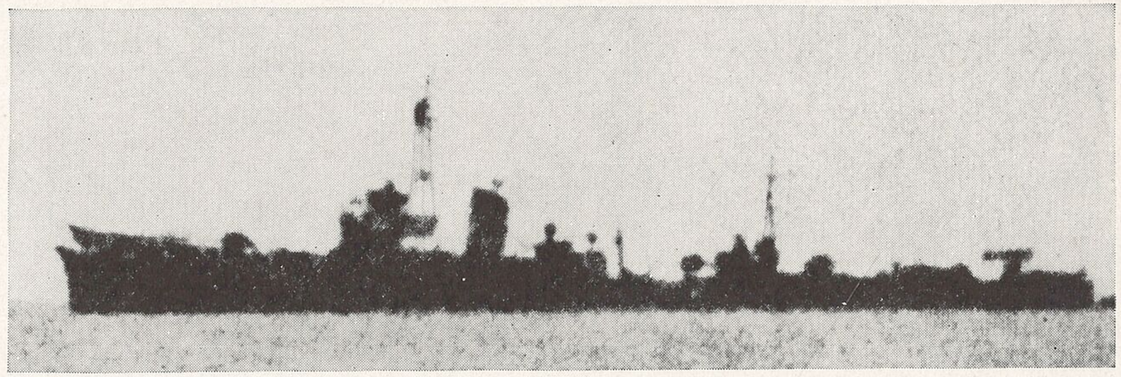
NOTE—POLE FOREMAST ON **AM 1-4**, TRIPOD ON NO. 5
PRONOUNCED DESTROYER APPEARANCE.

AM 13-24

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JUNE, 1943

ONI 41-42





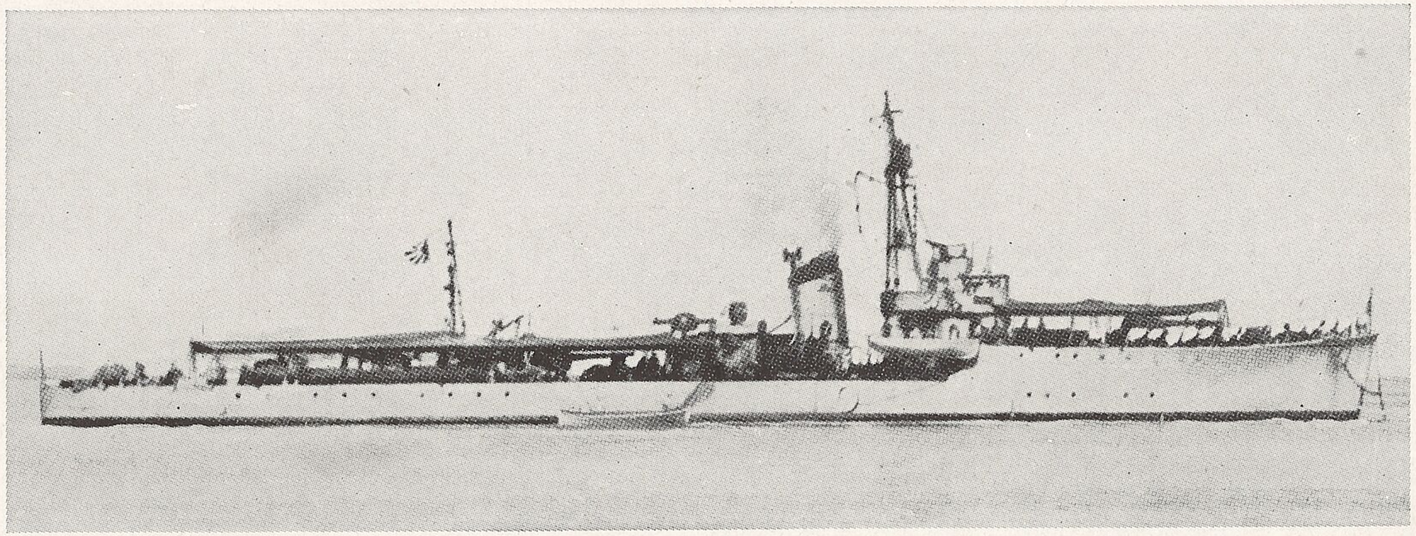
NO. 7 CLASS—AM 13-18

LENGTH—235′ OA; 229′6″ WL
BEAM —25′8″
DRAFT —7′8″ (MAXIMUM)
DISPLACEMENT—630 TONS (STANDARD)

ARMAMENT	MAX. ELEV.	MAX. RANGE (HOR.)
3–4″7	30°	19,000 YARDS

2–AAMG
?–MINES, DEPTH CHARGES
1–SEARCHLIGHT

PROPULSION
MACHINERY— TRIPLE EXPANSION RECIPROCATING
BOILERS— 3 KAMPON
FUEL— COAL
DESIGNED HP— 3850
DESIGNED SPEED—20 KNOTS
BEGUN—1937–38; COMPLETED—1938–39



NO. 19 CLASS—AM 19-24—APPEARANCE UNKNOWN

DIMENSIONS— 217′11″ (WL) x 25′4″ x 6′7″ (MEAN)
DISPLACEMENT—492 TONS (STANDARD)

ARMAMENT	MAX. ELEV.	MAX. RANGE (HORIZONTAL)
2–4″7	30°	19,000 YARDS

?–AAMG
?–MINES, DEPTH CHARGES

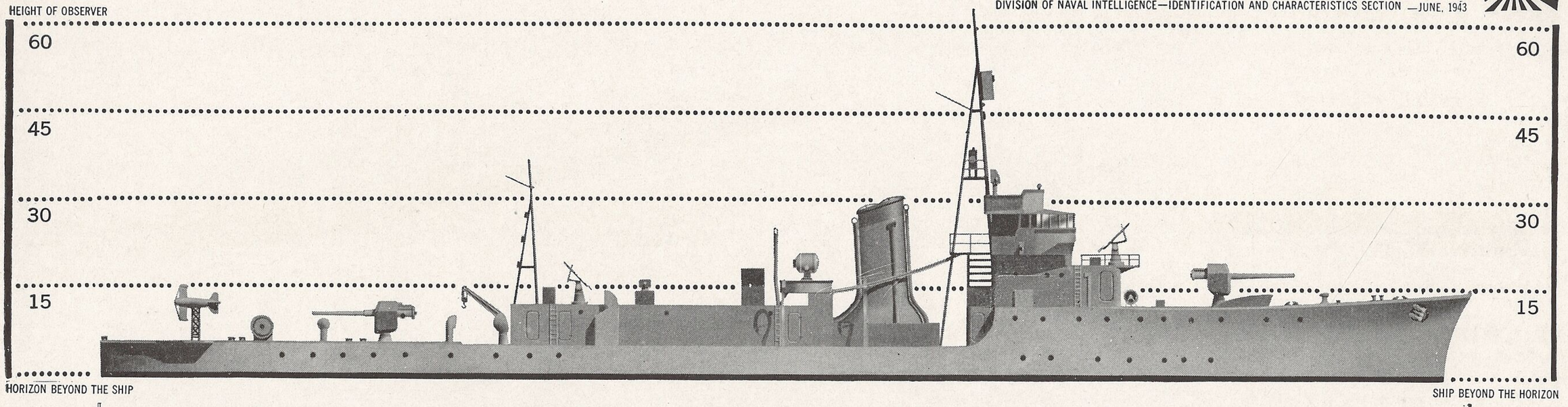
PROPULSION
MACHINERY— TRIPLE EXPANSION RECIPROCATING
FUEL— COAL
DESIGNED HP— 3200
DESIGNED SPEED—19 KNOTS

BEGUN—1939–41; COMPLETED—1941–42

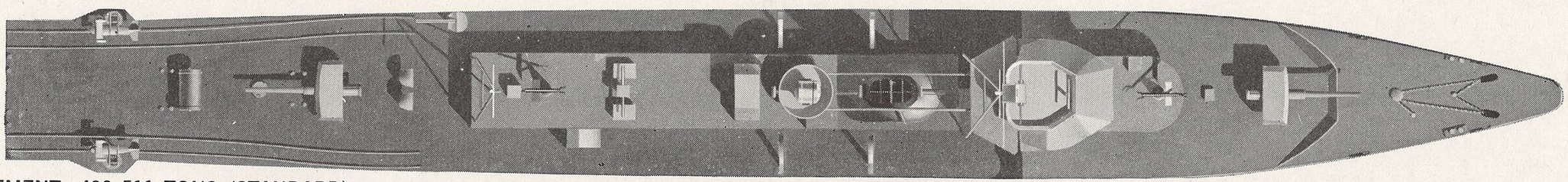
ONI 41-42 RESTRICTED

NO. 13 CLASS—AM 7-12

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



LENGTH—236′9″ OA; 232′3″ WL (NO. 17, 18—218′ OA)
BEAM— 25′
DRAFT— 6′ 1″ (NORMAL)



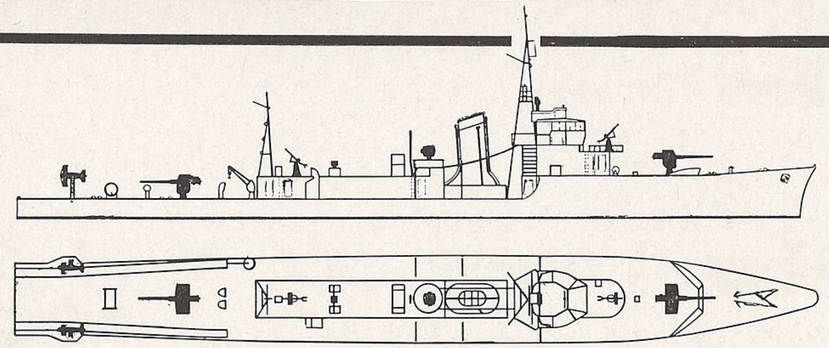
DISPLACEMENT—492–511 TONS (STANDARD)

ARMAMENT

	MAX. ELEV.	MAX. RANGE (HORIZONTAL)
2-4″.7	30°	19,000 YDS.
2–AAMG		
?–MINES		

PROPULSION

MACHINERY— T.E. RECIPROCATING
BOILERS— FUEL— COAL
DESIGNED HP—3200 DESIGNED SPEED—20 KNOTS



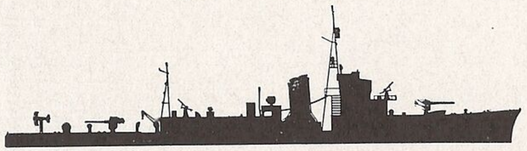
6—NO. 13 CLASS—AM 7-12

NO.13 CLASS
AM 7-12

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION
AND CHARACTERISTICS SECTION —JUNE, 1943

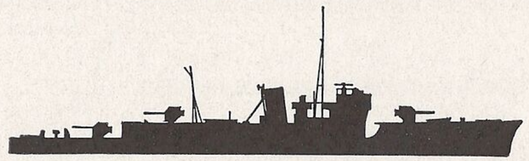
MISTAKEN IDENTITY

(SEE CHIDORI CLASS)

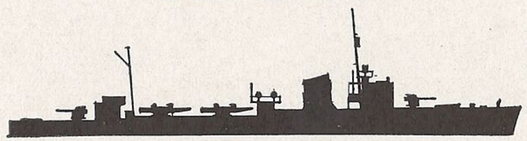


NO. 13 CLASS AM 7-12 (AM 13-18 SIMILAR)

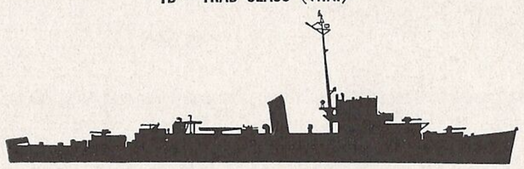
CHIDORI—OTORI CLASSES—TB 1-12



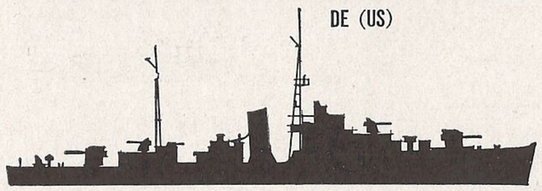
SHIMUSHU CLASS CM 11-15



TB—TRAD CLASS (THAI)



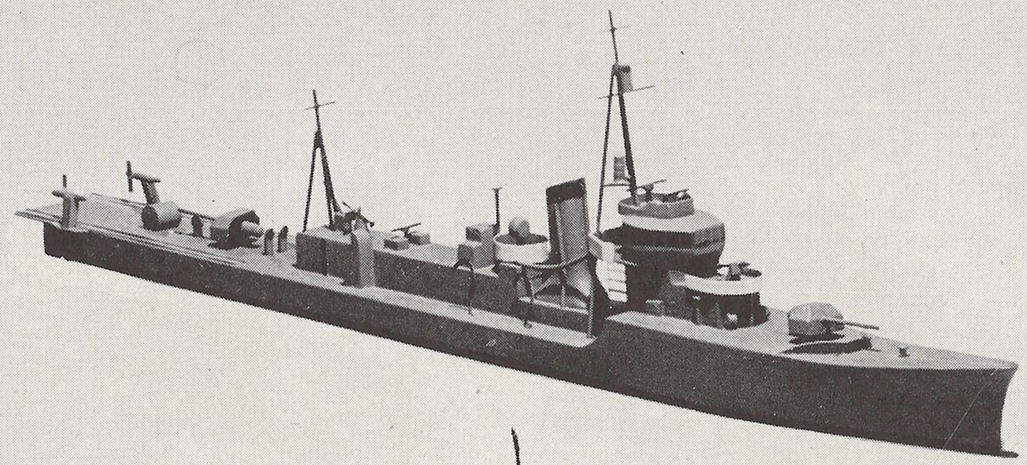
DE (US)

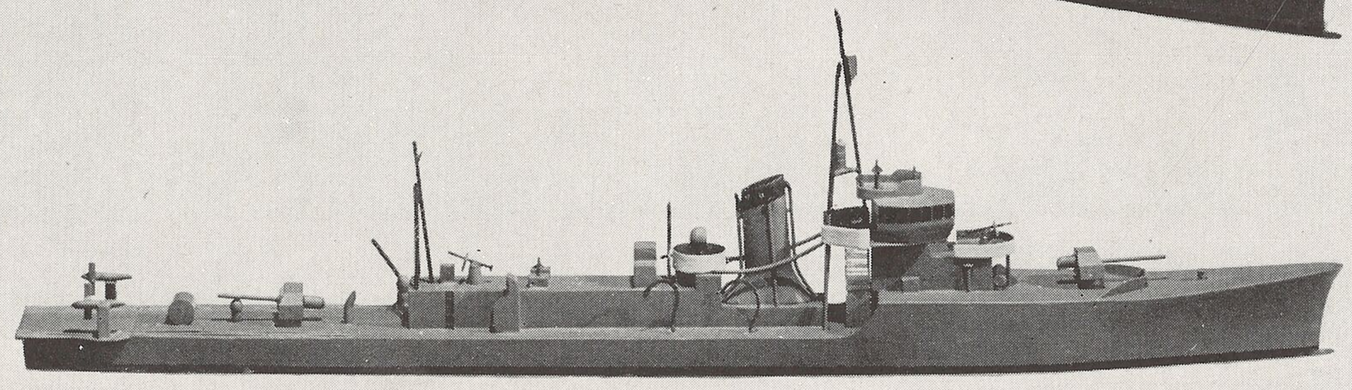


PG-HASHIDATE CLASS ALSO—CMC AND PC TYPES

AERIAL VIEWS

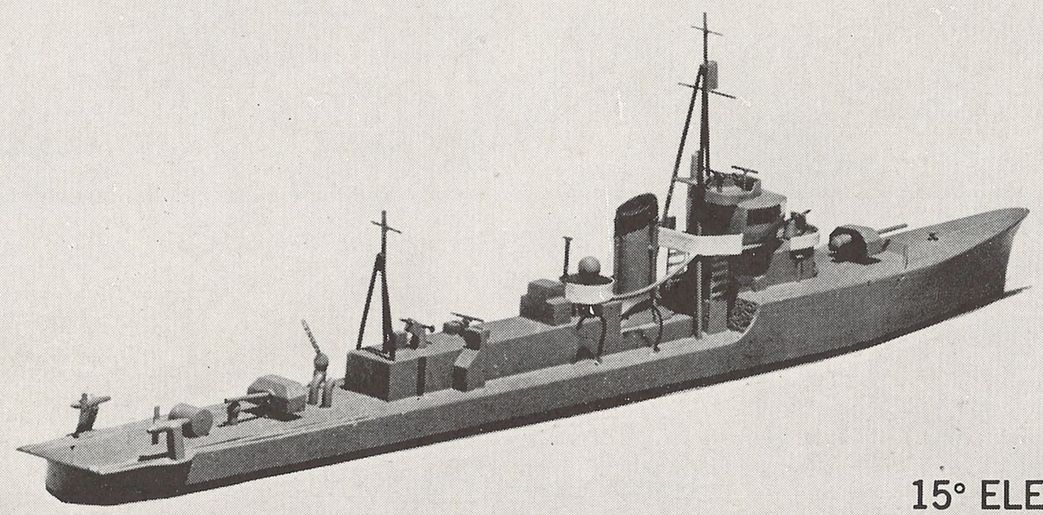
45°





90°

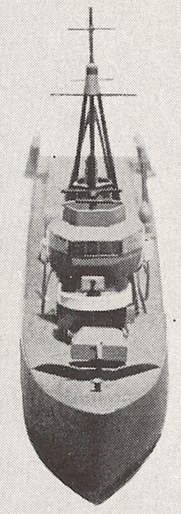
135°



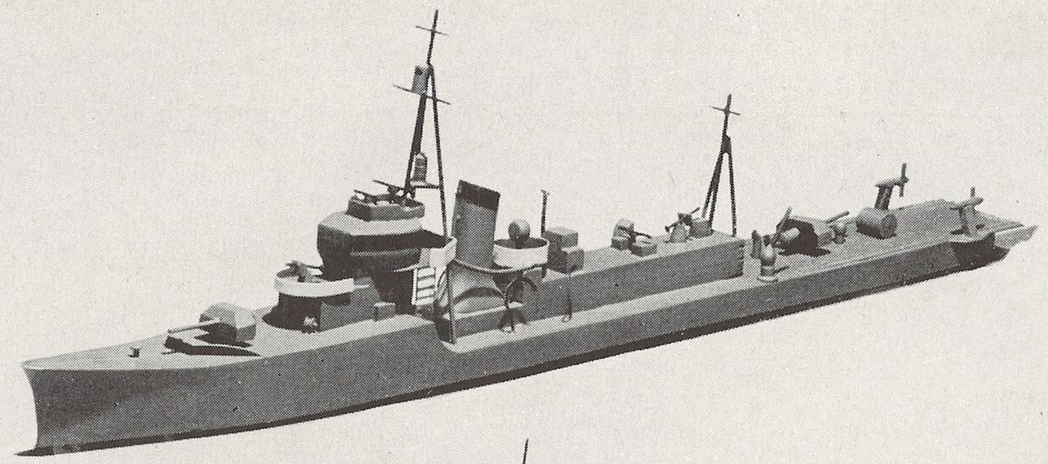
15° ELEVATION

ONI 41-42

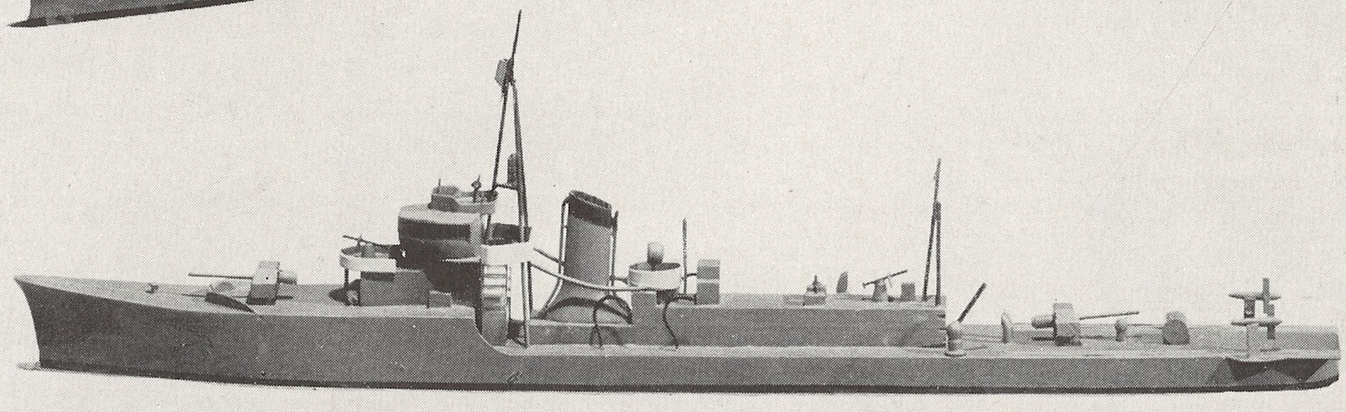
0°



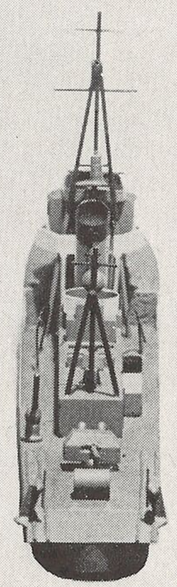
315°



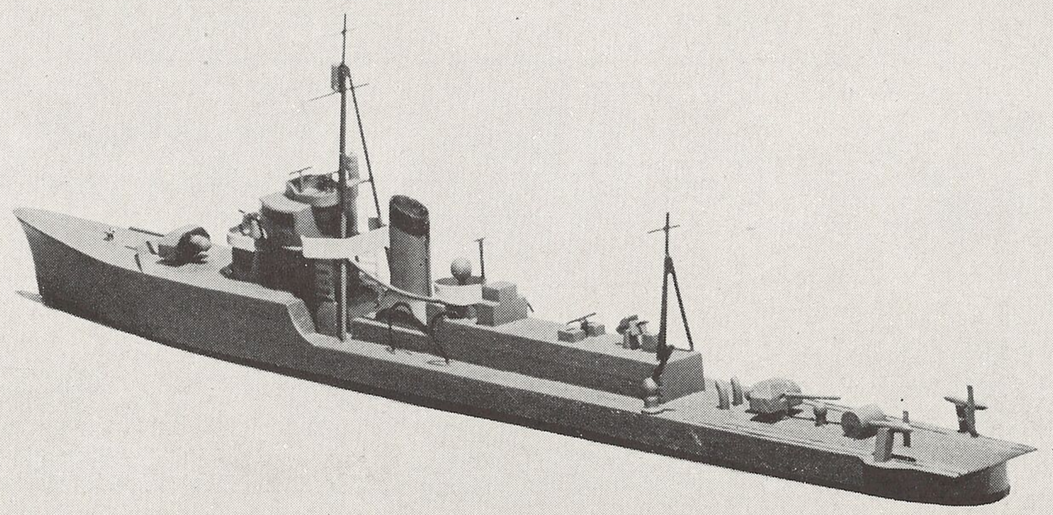
270°



180°



225°

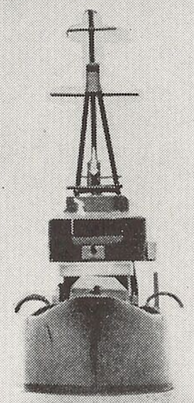


NO. 13 CLASS—AM 7-12

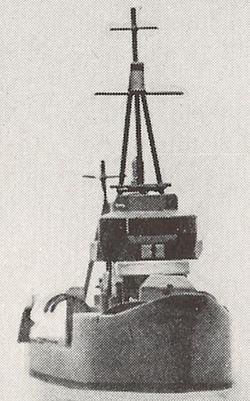
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943 RESTRICTED

TARGET ANGLES

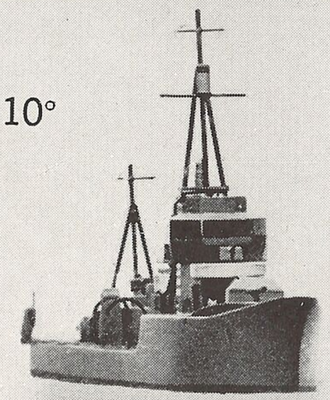
0°



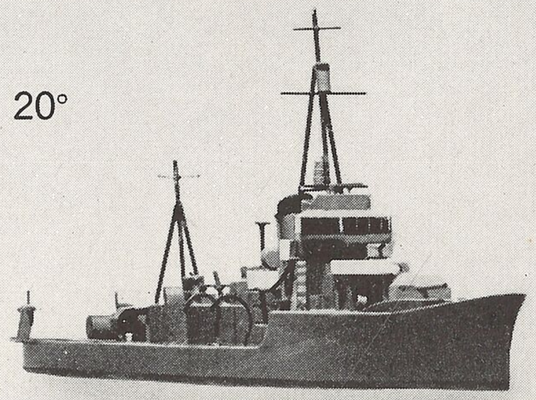
5°



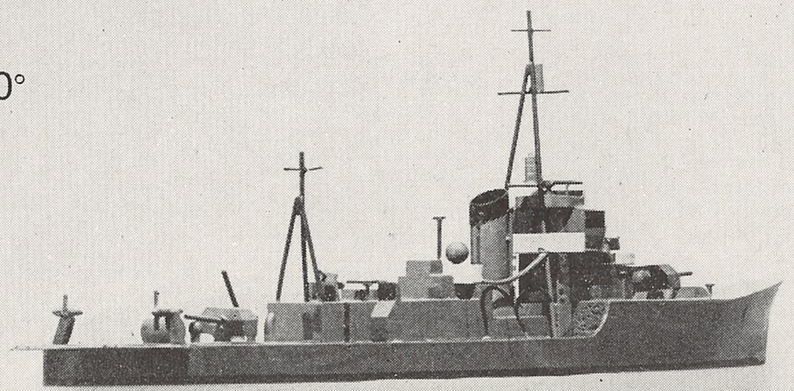
10°



20°



150°



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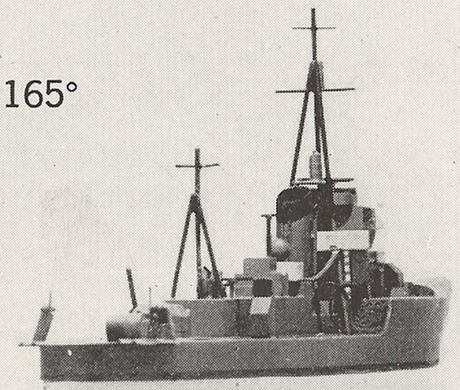

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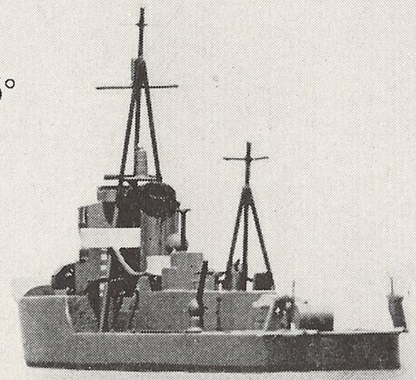
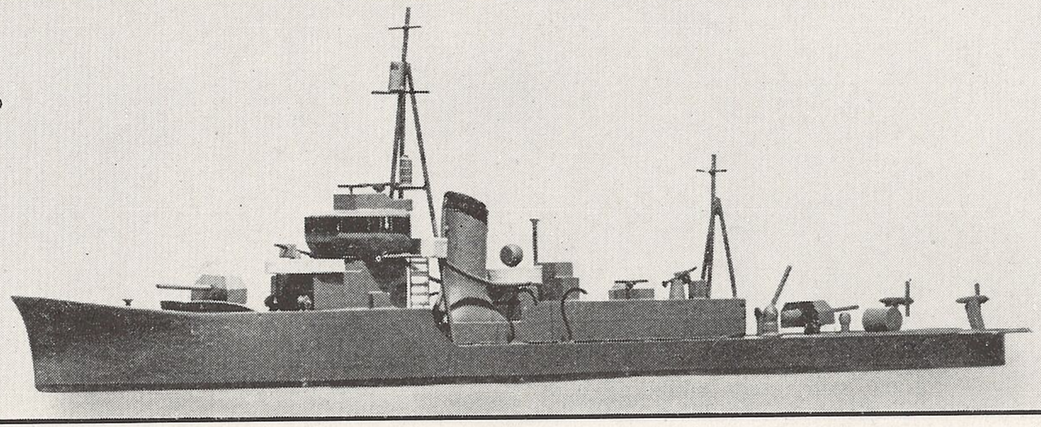
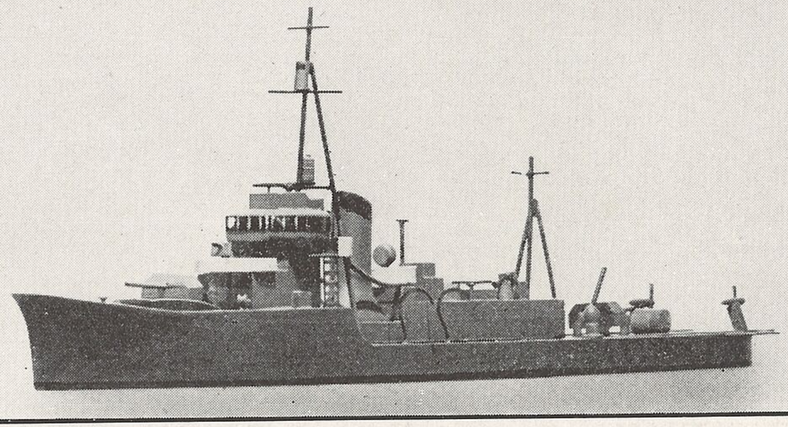


330°



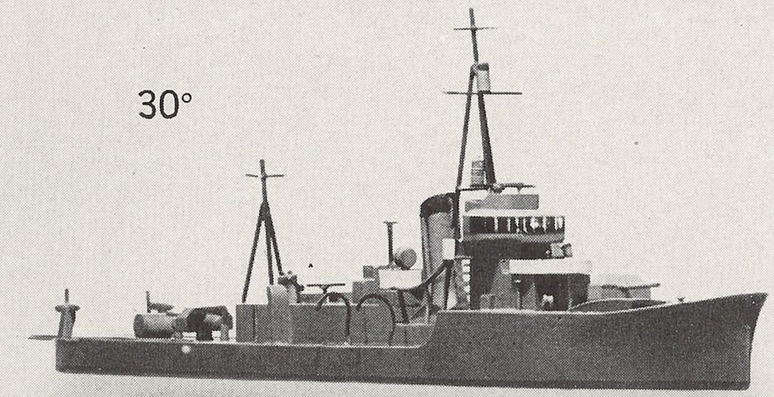
315°



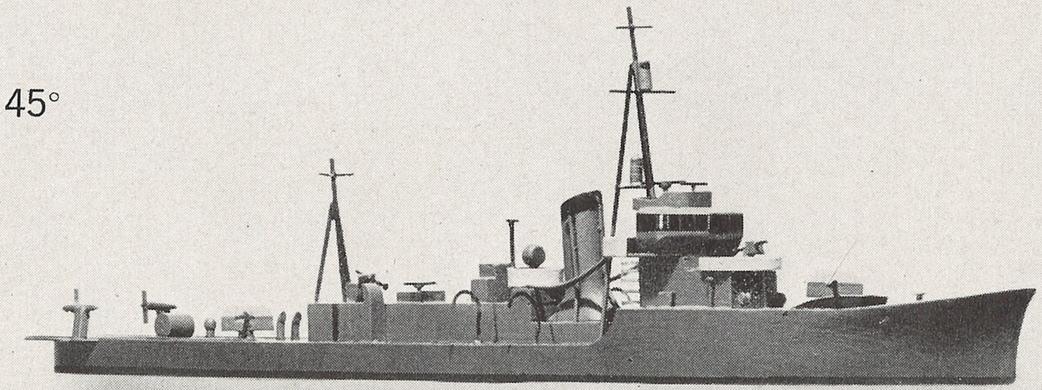
KNOTS	RPM	KNOTS	RPM	KNOTS	RPM	KNOTS	RPM
	400		300		200		100
	375		275		175		75
	350		250		150		50
	325		225		125		25

ONI 41-42

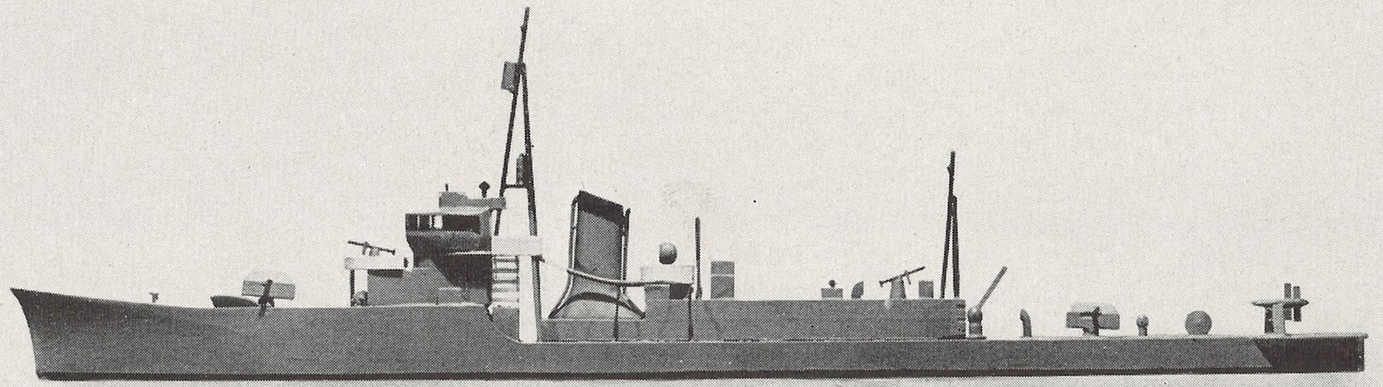
30°



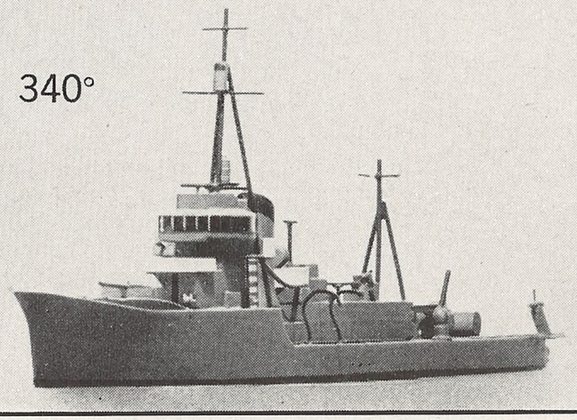
45°



270°

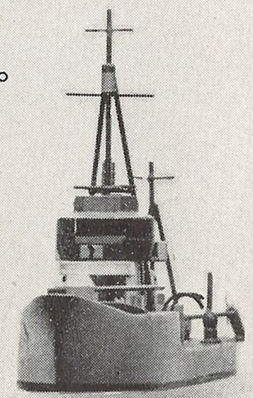


340°



350°

355°

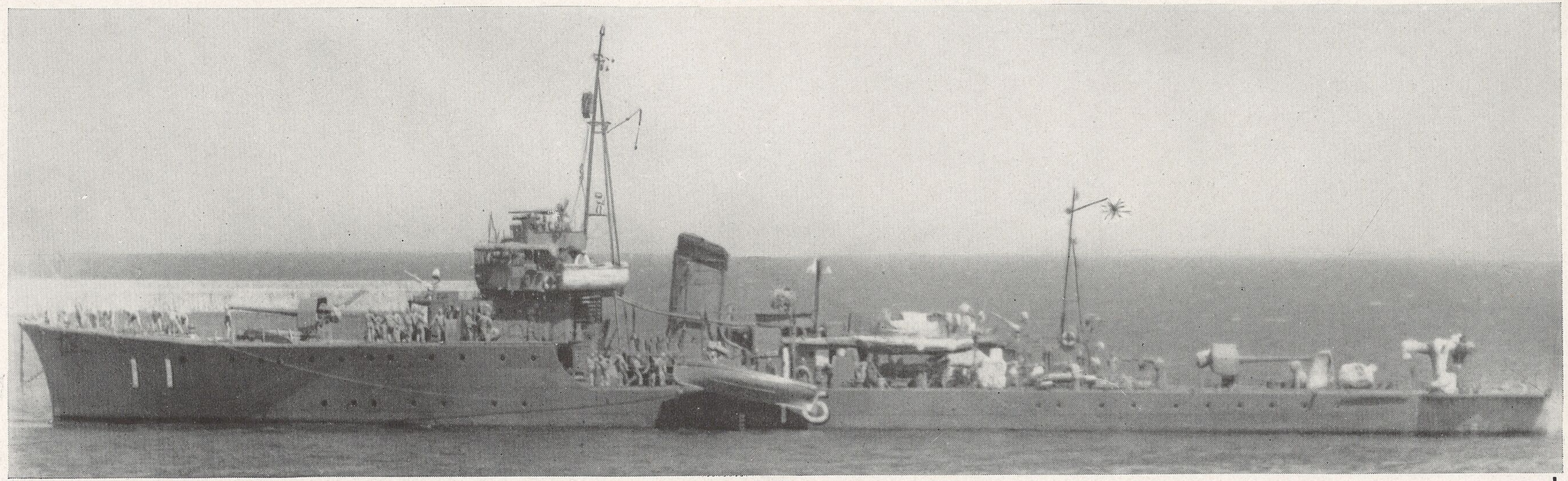


NO. 13 CLASS—AM 7-12

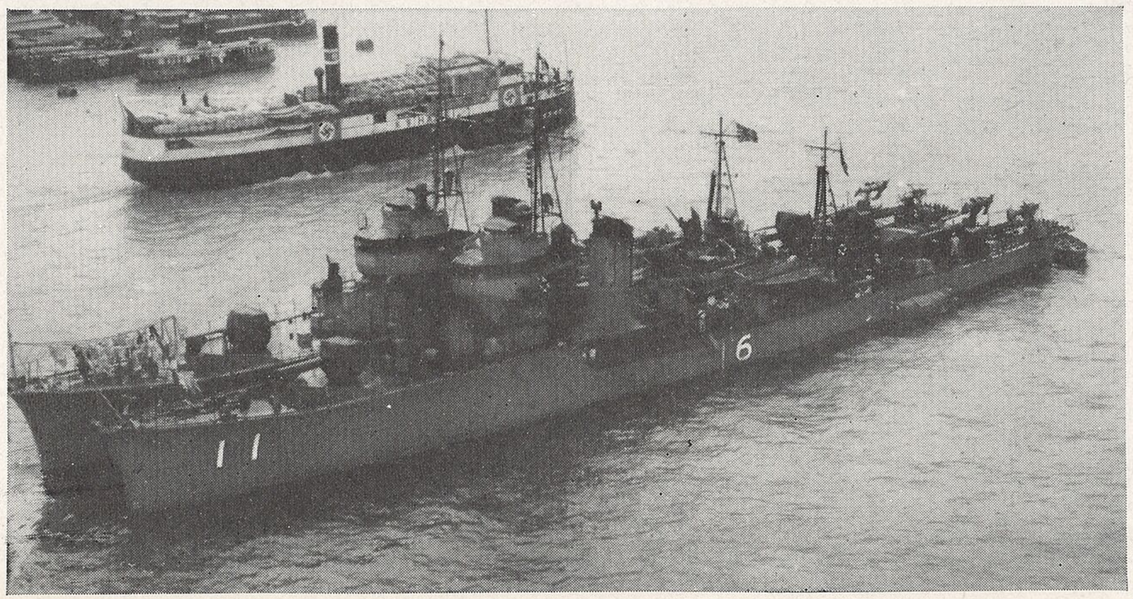
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

COMPLETED

NO. 13—AM 7—1933
NO. 14—AM 8—1933
NO. 15—AM 9—1934
NO. 16—AM 10—1936
NO. 17—AM 11—1936
NO. 18—AM 12—1941



↓ NO. 16—1/31/39

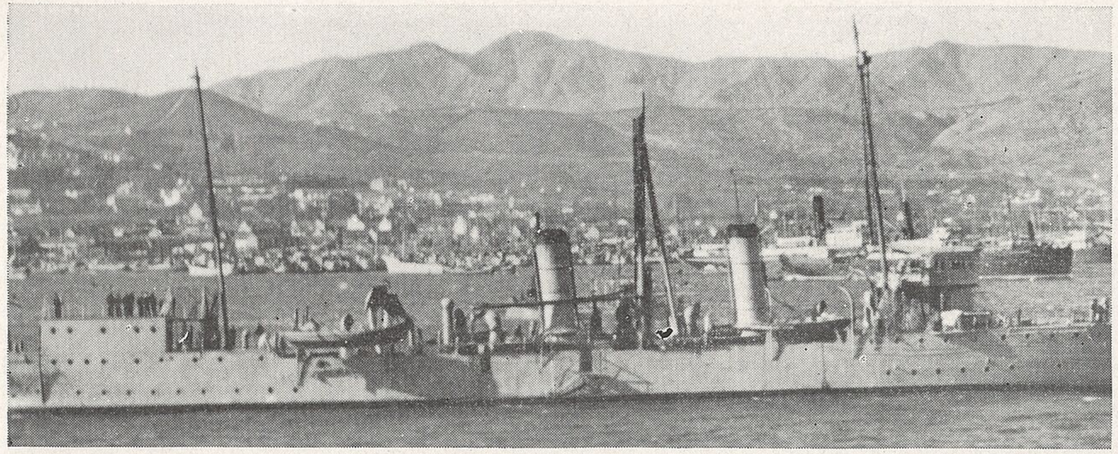


4/8/38 ↑

4/8/33 ↓

PG—GUNBOATS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



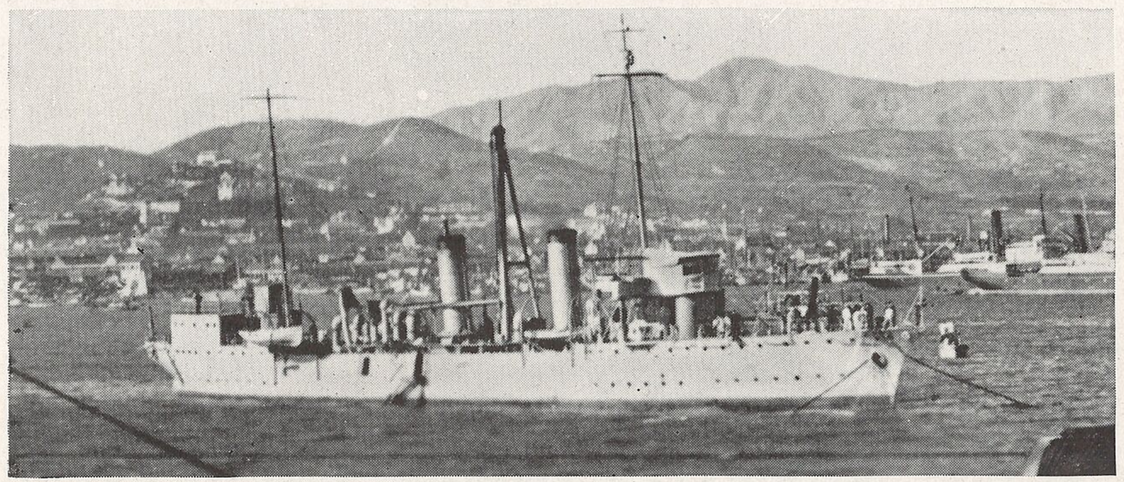
YODO—PG 1 COMPLETED—1908

LENGTH—300′ OA; 280′ PP BEAM— 32′ 1″ DRAFT— 11′ (MEAN)

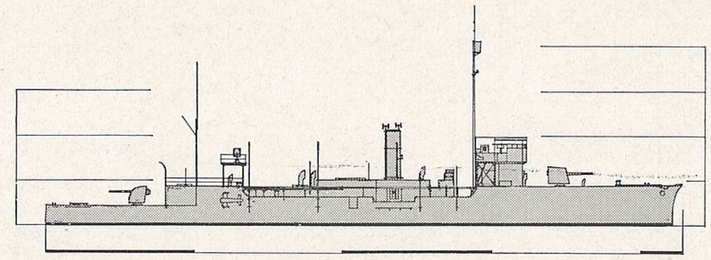
DISPLACEMENT—1,320 TONS (STANDARD); 1,450 TONS (NORMAL)

ARMAMENT	MAX. ELEV.	MAX. RANGE (HOR.)	MAX. RANGE (VERT.)
2–3″ AA	85°	9,000 YDS.	20,000 FT.
2–AAMG			
2–18″ TORPEDO TUBES			

PROPULSION
MACHINERY —TRIPLE EXPANSION RECIPROCATING
BOILERS— 4-MIYABARA FUEL—COAL, 420 TONS
DESIGNED HP—6,500 MAXIMUM SPEED—22 KNOTS
RIG AS SURVEY SHIP—PRESENT STATUS UNKNOWN AS SURVEY SHIP



SAGA—PG2 →

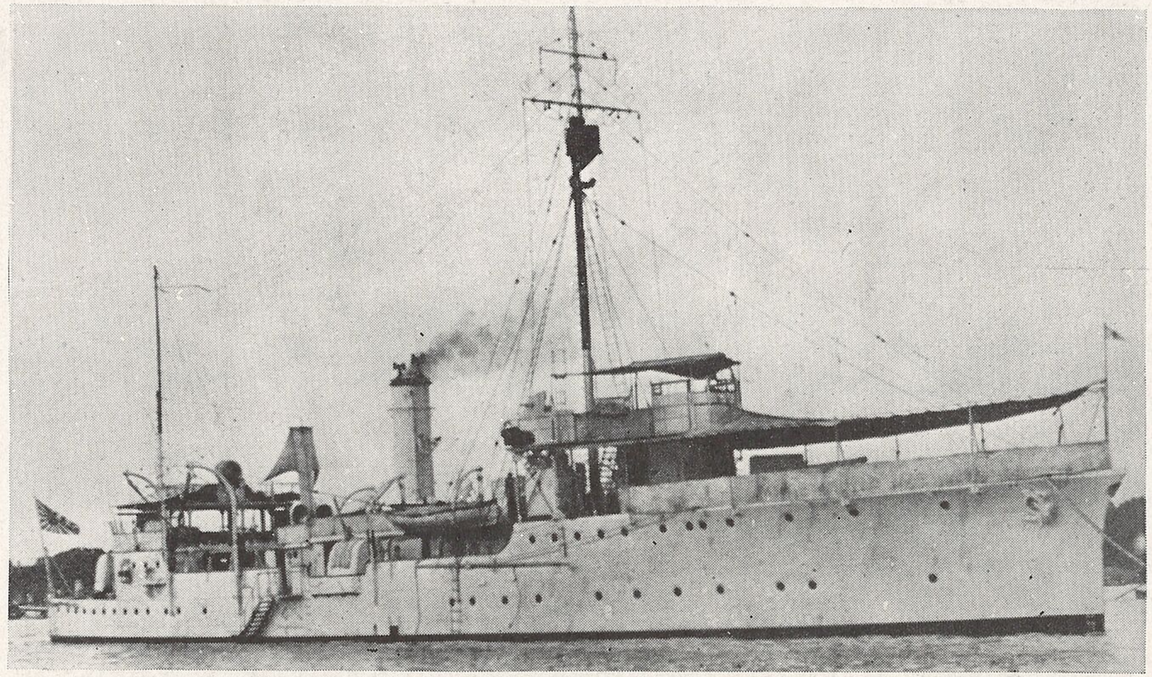


COMPLETED—1912
LENGTH—214′ OA
210′ WL
BEAM— 29′6″
DRAFT— 7′7″ (MEAN)

DISPLACEMENT—685 TONS (STANDARD); 780 TONS (NORMAL)

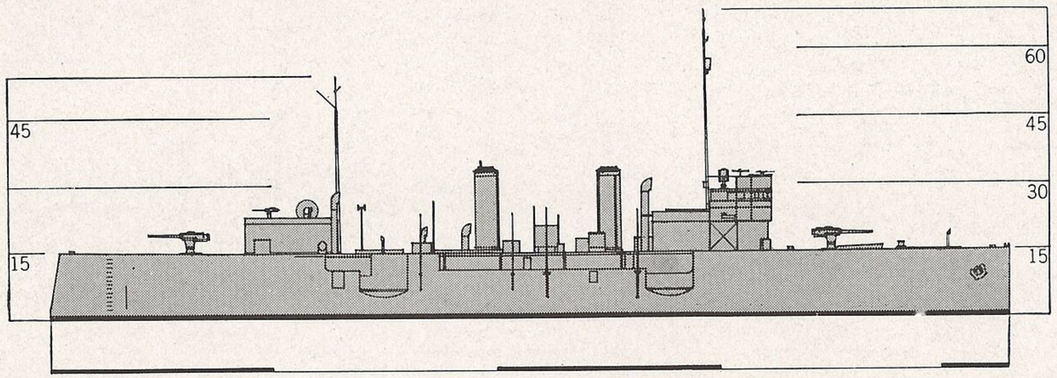
ARMAMENT	MAX. ELEV.	MAX. RANGE (HOR.)	MAX. RANGE (VERT.)
1–4.7″ (40)		10,800 YDS.	
3–3″ AA	85°	9,000 YDS.	20,000 FT.
?–AAMG			

PROPULSION
MACHINERY— TRIPLE EXPANSION RECIPROCATING
BOILERS— 2 KAMPON
FUEL— COAL, 200 TONS
DESIGNED HP— 1,600
MAXIMUM SPEED—15 KNOTS @ 279 R.P.M.



PG—GUNBOATS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



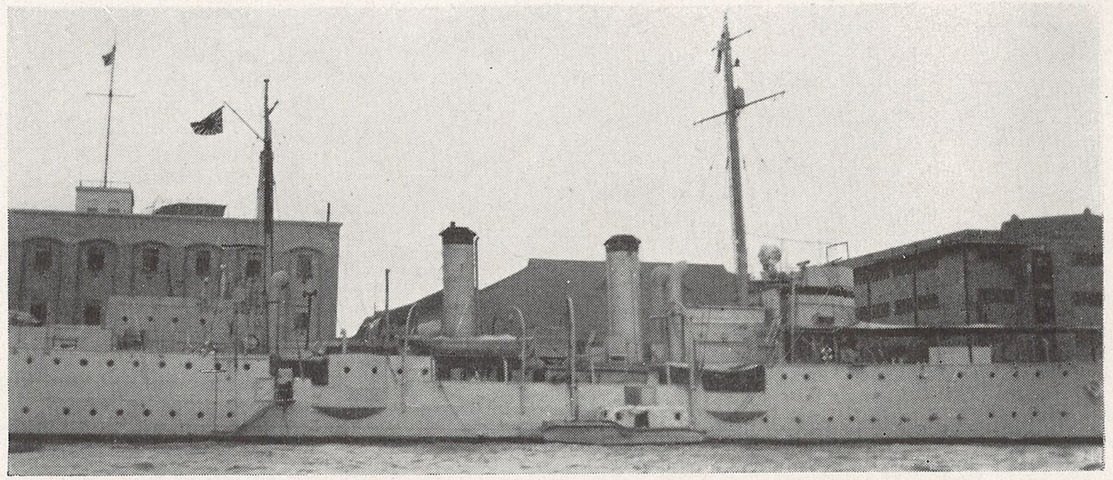
ASUGA—PG 3

COMPLETED 1915 (EX CHINESE MUNG CHI)

LENGTH—215′6″ OA BEAM—29′6″ DRAFT—11′6″ (MEAN)

DISPLACEMENT—860 TONS (STANDARD)

ARMAMENT	MAX. ELEV.	MAX. RANGE (HORIZONTAL)	MAX. RANGE (VERTICAL)
2–3″ (40)	85°	9,000 YARDS	20,000 FEET
1–20 MM. AAMG			
2–50 MM. AAMG			

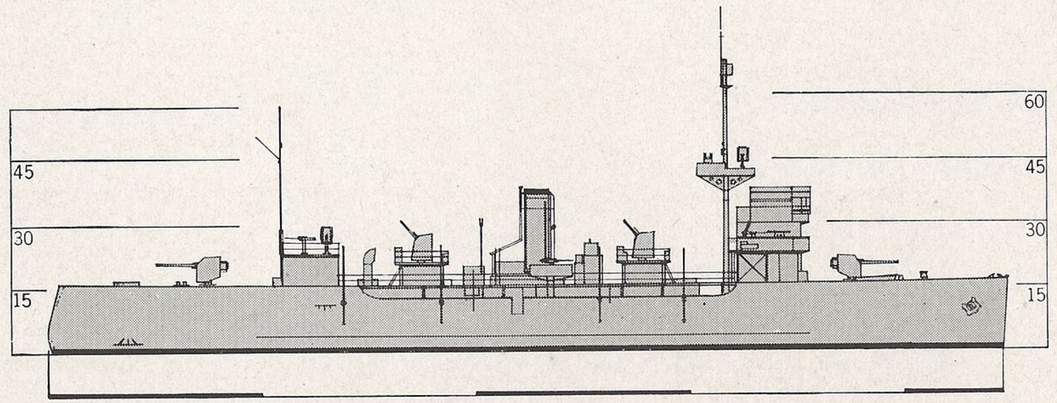


PROPULSION

MACHINERY —RECIPROCATING FUEL—COAL, 150 TONS

DESIGNED HP—1,350 MAXIMUM SPEED—13 KNOTS

NOW CLASSIFIED AS MISCELLANEOUS DUTY BOAT



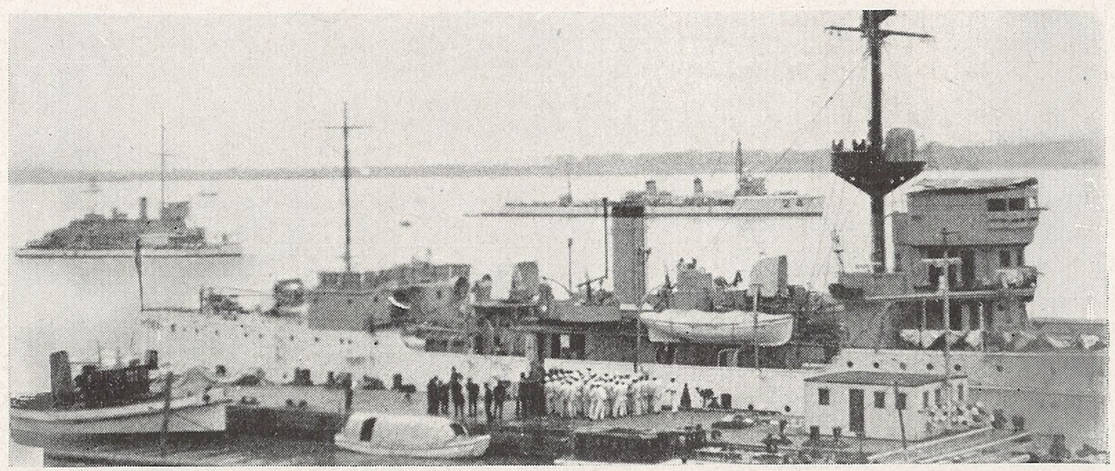
ATAKA—PG 4

COMPLETED 11/8/22

LENGTH—222′ OA BEAM—32′ DRAFT—7′6″ (MEAN)

DISPLACEMENT—725 TONS (STANDARD); 820 (NORMAL)

ARMAMENT	MAX. ELEV.	MAX. RANGE (HORIZONTAL)	MAX. RANGE (VERTICAL)
2–4″.7 (45)	40°	19,000 YARDS	
2(?)–3″ (40) AA	85°	9,000 YARDS	20,000 FEET
6–AAMG			



PROPULSION

MACHINERY—TRIPLE EXPANSION—RECIPROCATING BOILERS—2 KAMPON

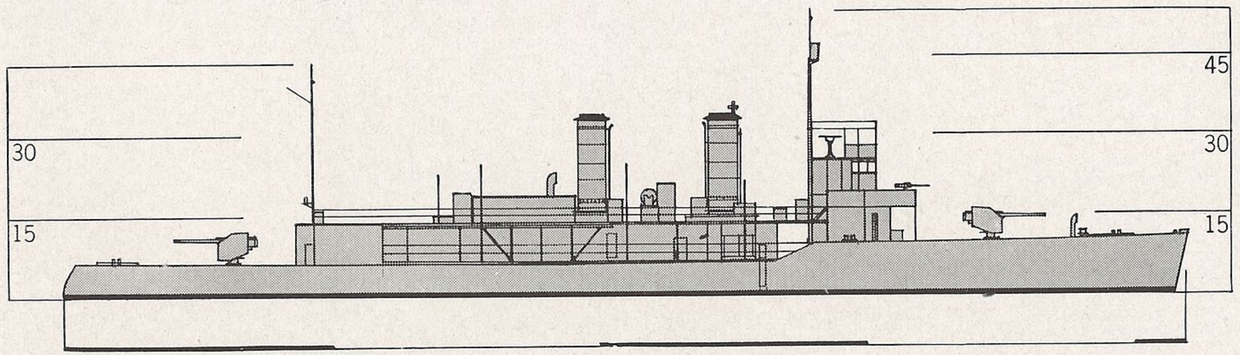
FUEL—COAL DESIGNED HP—1,700

MAXIMUM SPEED—16 KNOTS EQUIPPED FOR SUBMARINE SALVAGE WORK

PRESENT ARMAMENT UNKNOWN

PG—GUNBOATS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



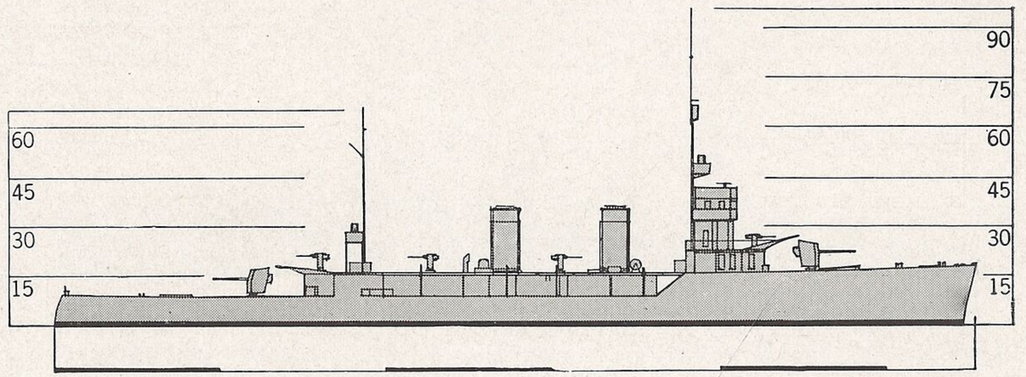
PG—5 HITONOSE (EX-CHINESE MING SEN)

LENGTH—210′ OA—207′ WL
BEAM— 27′
DRAFT— 6′6″ (MAXIMUM)
DISPLACEMENT—600 TONS (STANDARD); 464 TONS (NORMAL)

*ARMAMENT—(OLD)	MAX. ELEV.	MAX. RANGE
2–3″ AA	85°	9,000 YARDS
2–AAMG		

PROPULSION—
FUEL— COAL
DESIGNED HP— 2400
DESIGNED SPEED—16 KNOTS; 18 KNOTS MAXIMUM

BEGUN—5/5/31 COMPLETED—11/12/31
*PRESENT ARMAMENT UNKNOWN PHOTO—1938? NOTE NO ARMAMENT VISIBLE

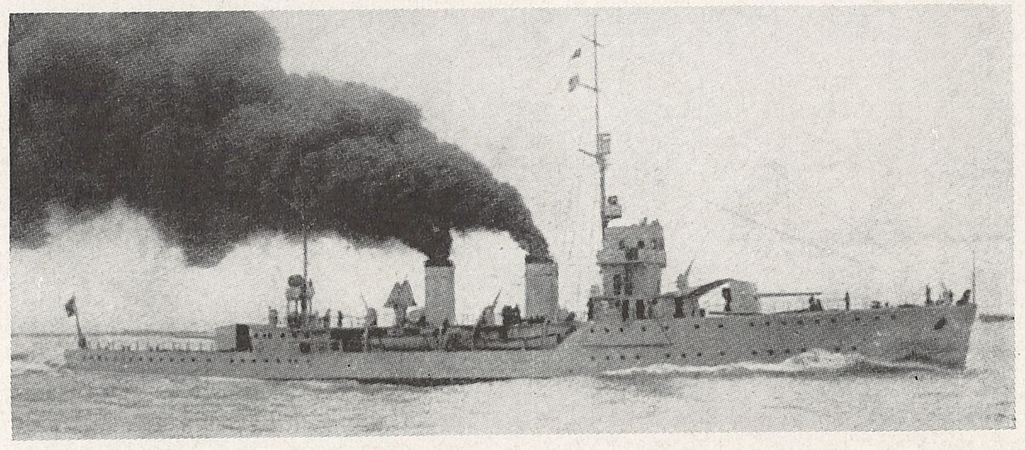


PG—EX-CHINESE YAT SEN (NEW NAME UNKNOWN)

LENGTH—275′ OA, 268′ WL BEAM—32′ DRAFT—11′0″ (MAXIMUM)
DISPLACEMENT—1600 TONS (STANDARD); 1650 TONS (NORMAL)

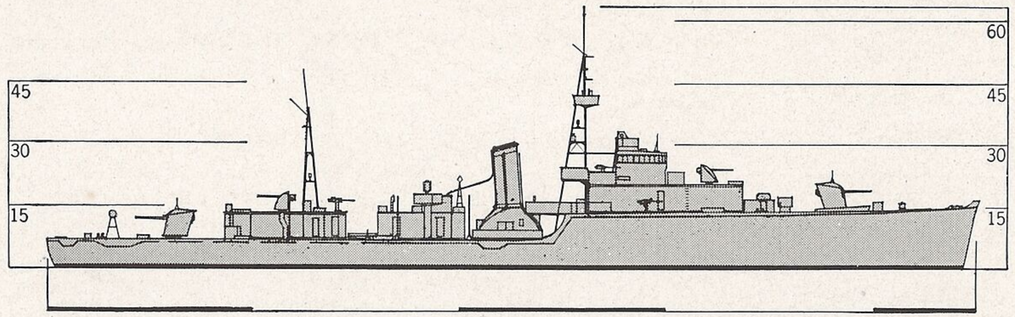
*ARMAMENT—(OLD)	MAX. ELEV.	MAX. RANGE
1–6″		25,000 YARDS
1–5″5		16,000 YARDS
4–3″ AA		
2–AAMG		

PROPULSION
FUEL— COAL, 300 TONS
DESIGNED HP—4000 DESIGNED SPEED—16 KNOTS
BEGUN—2/30; COMPLETED—12/30



PG 6, 7—HASHIDATE CLASS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



LENGTH—225′ OA—219′ WL BEAM—35′ DRAFT—8′6″ (MAXIMUM)
DISPLACEMENT—1,200 TONS (STANDARD)

ARMAMENT—	MAX. ELEV.	MAX. RANGE (HOR.)	MAX. RANGE (VER.)
2–4″.7 (50)	85°	19,000 YARDS	25,000 FEET

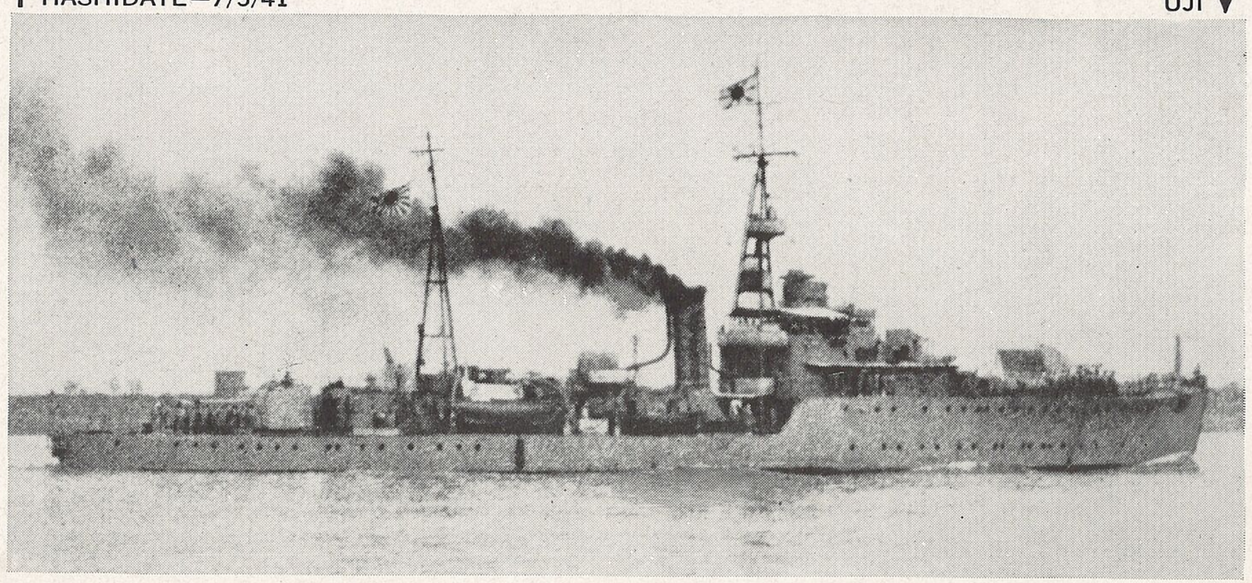
2–1″.4 AA TWINS
5–AAMG
12 DEPTH CHARGES
2 SEARCHLIGHTS—36″
PROTECTION—
GUN SHIELDS—¼″
DEGAUSSING EQUIPMENT
PROPULSION—
DESIGNED HP—3,600 (?)
MAXIMUM SPEED—20 KNOTS

	BEGUN	COMPLETED
HASHIDATE—PG-6	1938–39	1941
UJI— PG-7	1938–39	1941

NOTE BRIDGE VARIATION

↓ UJI—8/7/41

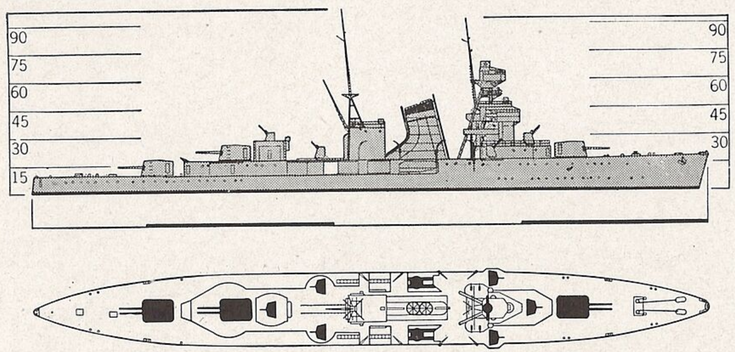
↑ HASHIDATE—7/5/41 UJI ↓



ONI 41-42 RESTRICTED

NING HAI—CLASS PG-8, 9

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JULY, 1943



LENGTH— 360′ 0″ OA, 330′ 0″ PP

BEAM— 39′ 0″

DRAFT— 13′ 0″ (MAXIMUM), 11′ 5″ (MEAN)

DISPLACEMENT— 1900-1990 TONS (STANDARD)

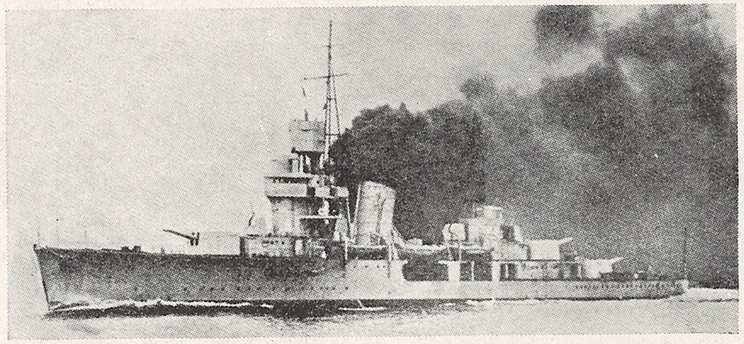
ARMAMENT (OLD)—	MAX. ELEV.	MAX. RANGE
6–5.5″ (50)	30°	20,000 YARDS
8(?)–2.4″		
6–3.1″ (45) AA		
4–AAMG		
2–D.C. GUNS		

4–21″ TORPEDO TUBES
9–DEPTH CHARGES
2–SCOUT OBSERVATION PLANES CARRIED

PROTECTION— DECK—1″
GUNHOUSES, HULL SIDE AMIDSHIPS LIGHTLY ARMORED
MACHINERY—GEARED TURBINES
BOILERS—
FUEL—COAL, 645 TONS, OIL, 110 TONS
DESIGNED HP— 7100-9500
DESIGNED SPEED—22-23 KNOTS
ENDURANCE— 5000 MILES @ 12 KNOTS

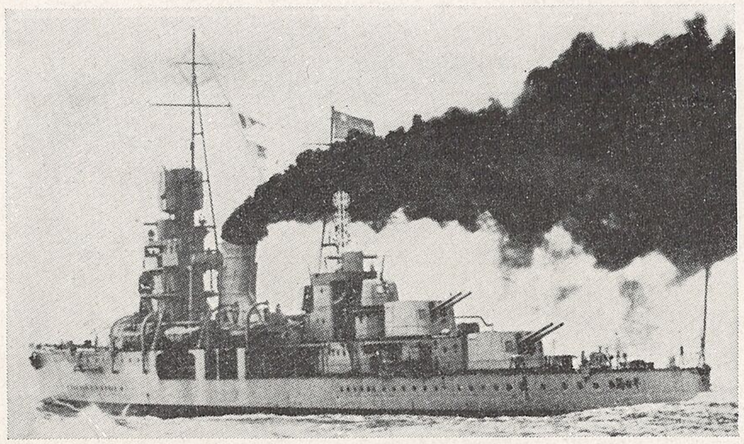
	BEGUN	COMPLETED
NING HAI—PG 8—	2/22/31	8/19/32
PING HAI—PG 9—	6/28/31	1936

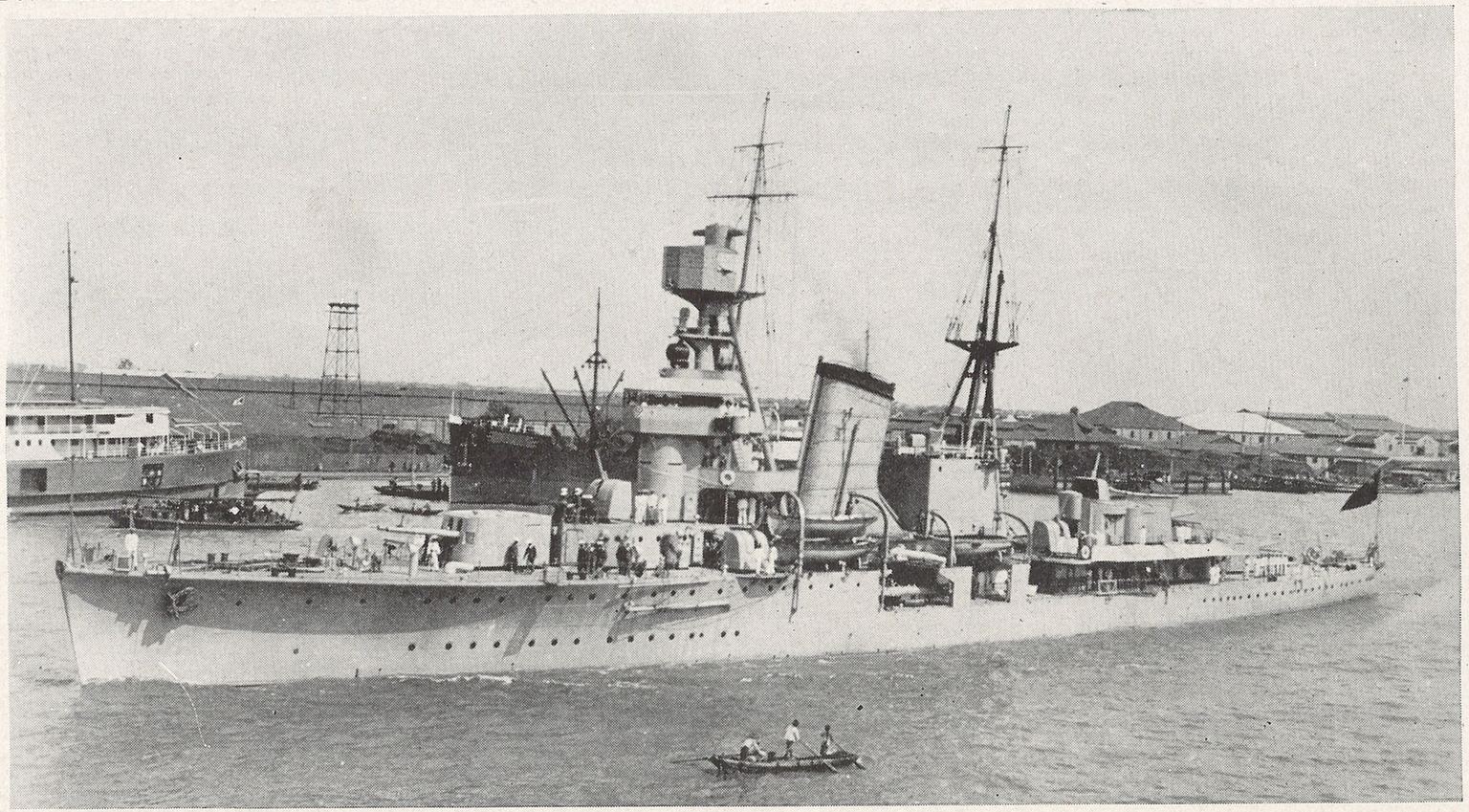
THESE VESSELS WERE CAPTURED FROM THE CHINESE IN 1937, AND ARE NOW BELIEVED TO HAVE BEEN RETURNED TO THE NANKING GOVERNMENT. NEW NAMES, ARMAMENT UNKNOWN. NOTE DIFFERENCES IN AFT DECKHOUSE ARRANGEMENT. PROFILE IS OF **NING HAI**



↑ PING HAI—1937 ↓

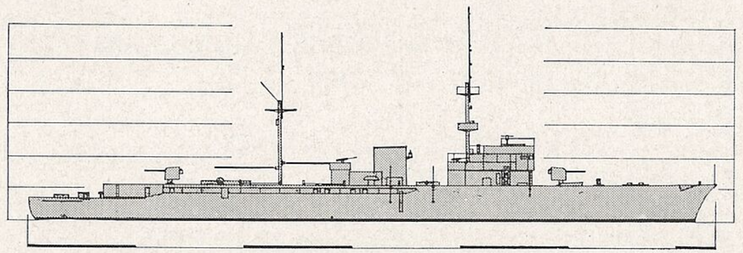
NING HAI—1937 →





PG—MISCELLANY

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



ERITREA—(ITALIAN PG-5)

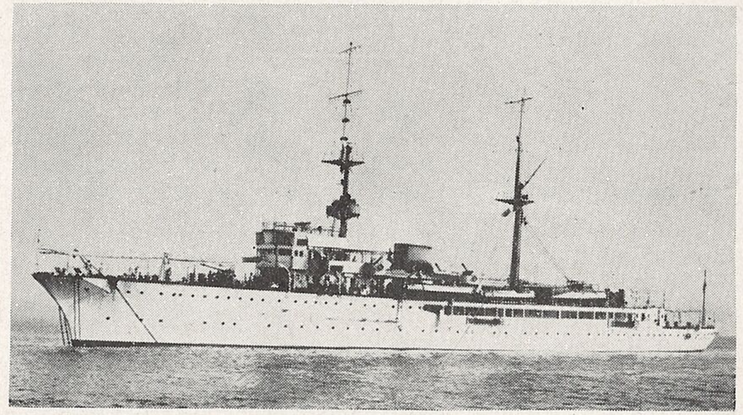
LENGTH— 317′11″ OA; 296′11″ WL
BEAM— 48′8″
DRAFT— 12′2″ (MEAN)
DISPLACEMENT—2,172 TONS (STANDARD)

ARMAMENT— 4–4″.7 (45)
6–AAMG
100–MINES

PROPULSION
MACHINERY— 2 FIAT DIESELS
FUEL— OIL, 320 TONS
DESIGNED HP— 8,000
DESIGNED SPEED—20 KNOTS

BEGUN—7/25/35; COMPLETED—6/37

STATIONED IN PACIFIC



THE STATUS OF THESE EX-CHINESE SHIPS IS DOUBTFUL, NEW ARMAMENT UNKNOWN

EX-CHAO HO 1912

DIMENSIONS— 320′0″ OA x 30′0″ x 14′9″ (MAXIMUM)
DISPLACEMENT—2,600 TONS (NORMAL)
ARMAMENT— 2–6″
4–4″
2–3″
6–1″.85
2–1″.57 AA
2–1″.46
2–18″ TORPEDO TUBES

PROPULSION
MACHINERY— PARSONS TURBINES
BOILERS— 6 YARROW
FUEL— OIL, 100 TONS
DESIGNED HP— 6,000
DESIGNED SPEED—20 KNOTS

EX-KIANG CHEN 1906

DIMENSIONS— 180′ (WL) x 28′ x 7′
DISPLACEMENT—550 TONS
ARMAMENT— 1–4″.7
1–3″
3–PDR
4–AAMG

PROPULSION
FUEL— COAL, 113 TONS
DESIGNED HP— 950
DESIGNED SPEED—13 KNOTS

EX-HAI CHI 1898

DIMENSIONS— 424′ (WL) x 46′10″ x 19′ (MAXIMUM)
DISPLACEMENT— 4,300 TONS
ARMAMENT— 2–8″ (45)
10–4″.7 (45)
12–3 PDR
?–AAMG
5–18″ TORPEDO TUBES
DESIGNED HP— 17,000
DESIGNED SPEED—24 KNOTS

EX-HAI CHEN 1898

DIMENSIONS— 314′0″ (WL) x 40′10″ x 19′0″ (MAXIMUM)
DISPLACEMENT— 2,950 TONS (NORMAL)
ARMAMENT— 3–5″.9
8–4″
4–1″.85
1–1″.57 AA
4–1″.46
DESIGNED HP— 7,000
DESIGNED SPEED—19.5 KNOTS

ONI 41-42 RESTRICTED

OCA—COAST DEFENCE SHIPS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

YAKUMO—OCA 2 COMPLETED 1900, MODERNIZED 1935

LENGTH—434′ OA
BEAM— 64′ 3″
DRAFT— 23′ 9″ (MEAN)

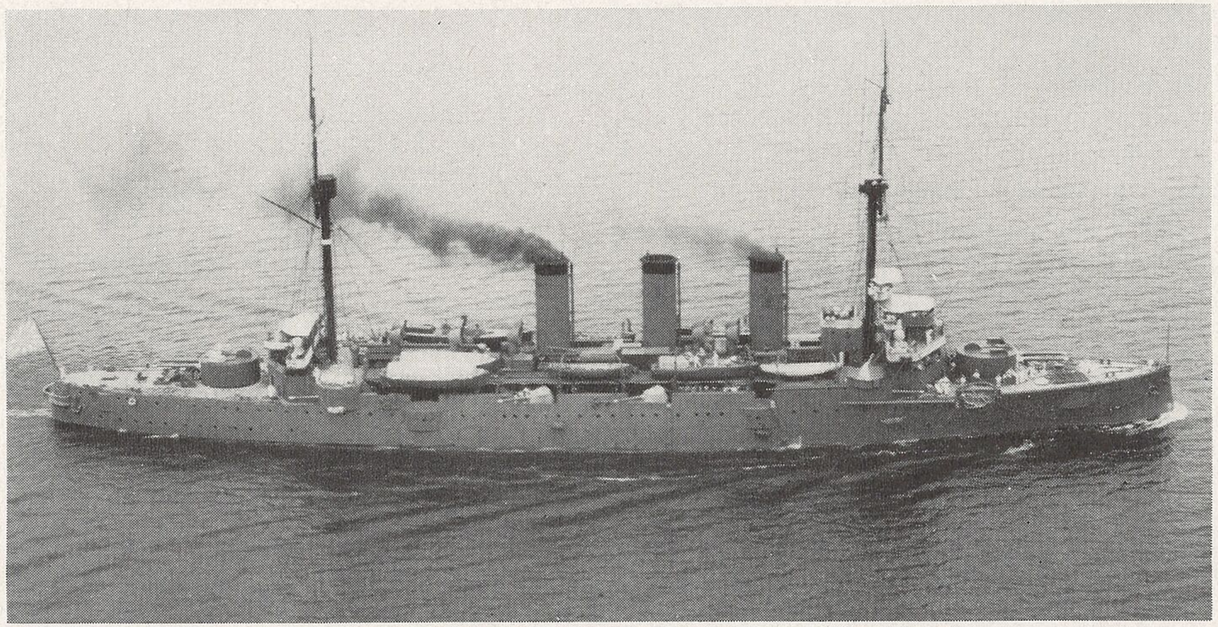
DISPLACEMENT—9,010 TONS (STANDARD); 9,645 TONS (NORMAL)

ARMAMENT	MAX. ELEV.	MAX. RANGE (HOR.)	MAX. RANGE (VER.)
4–8″ (40)	15°	16,000 YARDS	
8–6″ (40)	20°	14,200 YARDS	
4–3″ (40)	85°	9,000 YARDS	
1–3″ (40) AA	85°	9,000 YARDS	20,000 FEET

2–18″ TORPEDO TUBES

PROTECTION
CONNING TOWER—10″
BELT— 7″ MAXIMUM (AMIDSHIPS); 3.5″ ENDS; 5″ SIDES ABOVE BELT
DECK— 2.5″
TURRETS— 6″
CASEMATES 6″

PROPULSION
MACHINERY— 2 TRIPLE EXPANSION RECIPROCATING
BOILERS— SIX YARROW
FUEL— 1,200 TONS COAL
DESIGNED HP— 7,000
MAXIMUM SPEED— 16 KNOTS @ 120 R.P.M.



IWATE CLASS—OCA 4, 5
IWATE—OCA 4 COMPLETED 1901, MODERNIZED 1935
IZUMO—OCA 5 COMPLETED 1900, MODERNIZED 1935

LENGTH—434′ OA
BEAM— 68′ 6″
DRAFT—26′ 3″ (MEAN)

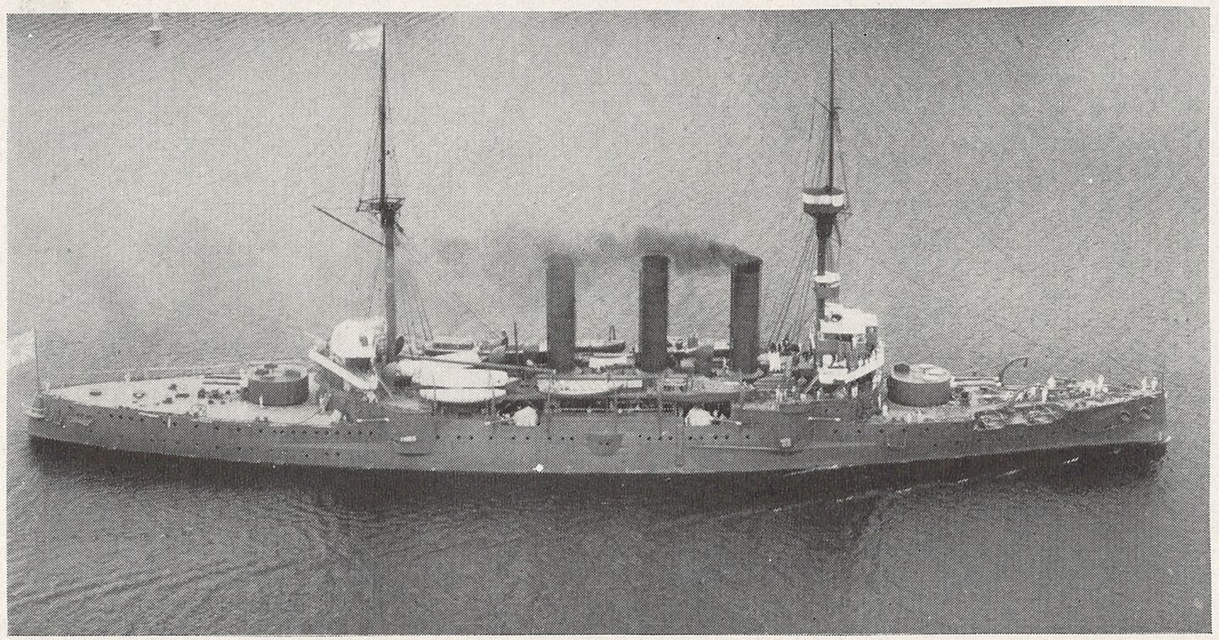
DISPLACEMENT—9,180 TONS (STANDARD); 9,826 TONS (NORMAL)

ARMAMENT	MAX. ELEV.	MAX. RANGE (HOR.)	MAX. RANGE (VER.)
4–8″ (40)	15°	16,000 YARDS	
14–6″ (40)	20°	14,200 YARDS	
4–3″	85°	9,000 YARDS	
1–3″ AA	85°	9,000 YARDS	20,000 FEET

4–18″ TORPEDO TUBES
1 SCOUT OBSERVATION PLANE

PROTECTION
CONNING TOWER— 14″
BELT— 7″ MAXIMUM (AMIDSHIPS); 3.5″ ENDS
DECK— 2.5″
TURRETS— 6″

PROPULSION
MACHINERY— 2 TRIPLE EXPANSION RECIPROCATING
BOILERS— SIX YARROW (IWATE); TWENTY-FOUR BELLEVILLE (IZUMO)
FUEL— 1,400 TONS COAL
DESIGNED HP— 7,000 (IWATE); 14,700 (IZUMO)
MAXIMUM SPEED— 20.7 KNOTS (IZUMO); 16 KNOTS @ 145 R.P.M. (IWATE)

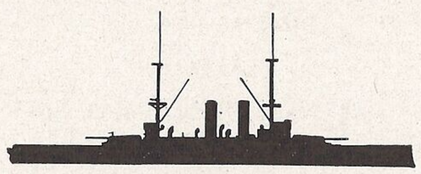


AG—TRAINING VESSELS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

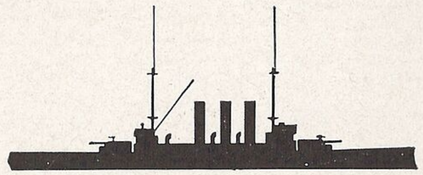
FUJI—(EX-OBB) COMPLETED 1897

DIMENSIONS— 374′ OA x 73′ x 21′ 10″ (MEAN)
DISPLACEMENT— 9,179 TONS (STANDARD)
ARMAMENT— 4–12″, 10–6″, 16–12 PDR
DESIGNED HP— 13,500
DESIGNED SPEED—18.2 KNOTS



SHIKISHIMA—(EX-OBB) COMPLETED 1900

DIMENSIONS— 438′ OA x 75′ 6″ x 21′ 8″ (MEAN)
DISPLACEMENT— 11,275 TONS (STANDARD)
ARMAMENT— 4–12″, 14–6″, 20–12 PDR
DESIGNED HP— 14,500
DESIGNED SPEED—18.6 KNOTS



ASAMA—(EX-OCA-1) COMPLETED 1899

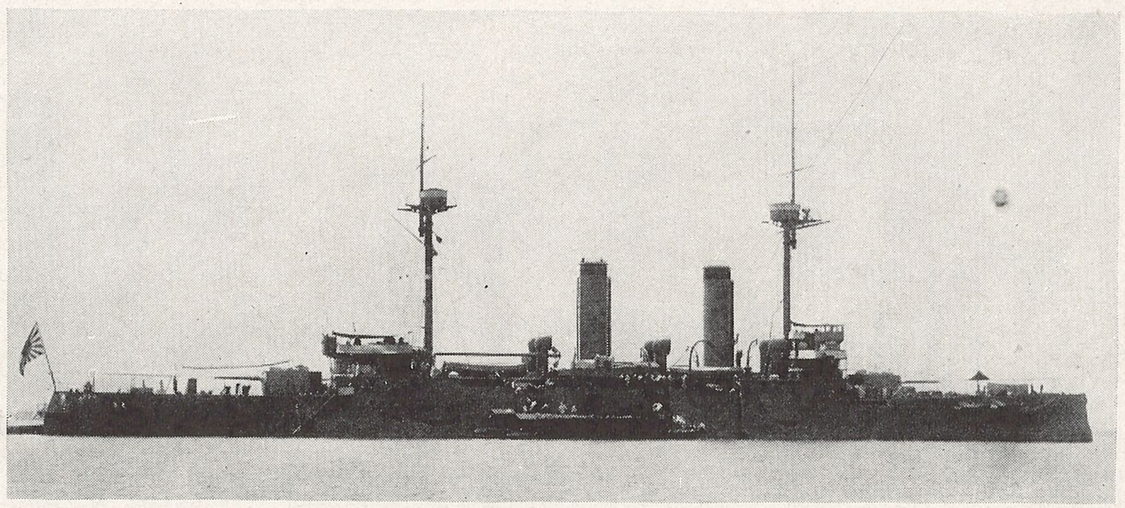
DIMENSIONS— 442′ OA x 67′ 1″ x 24′ 4″ (MEAN)
DISPLACEMENT—9,240 TONS (STANDARD)—9,885 TONS (NORMAL)

ARMAMENT—	MAX. ELEV.	MAX. RANGE (HORIZONTAL)	MAX. RANGE (VERTICAL)
4– 8″ (40)	15°	16,000 YARDS	
12– 6″ (40)	20°	14,200 YARDS	
4– 3″ (40)	85°	7,000 YARDS	
1– 3″ (40) AA	85°	9,000 YARDS	20,000 FEET

4–18″ TORPEDO TUBES; 18 EIGHTEEN INCH AND 4 FOURTEEN INCH TORPEDOES CARRIED

PROTECTION—
CONNING TOWER—10″
BELT— 7″ MAXIMUM (AMIDSHIPS); 3.5″ ENDS
DECK— 2″ TURRETS—6″ CASEMATES—6″

PROPULSION—
MACHINERY— RECIPROCATING FUEL— 1,400 TONS, COAL
DESIGNED HP—18,000 MAXIMUM SPEED—21 KNOTS



AZUMA—(EX-OCA-3) COMPLETED 1900

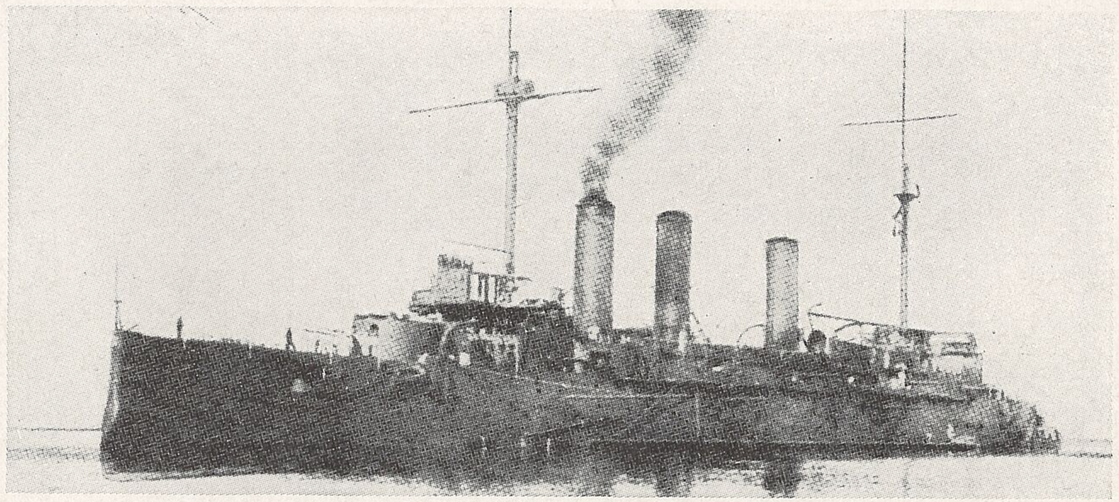
DIMENSIONS— 452′ 5″ OA x 59′ 6″ x 25′ (MAXIMUM)
DISPLACEMENT—8,640 TONS (STANDARD); 9,277 TONS (NORMAL)

ARMAMENT—	MAX. ELEV.	MAX. RANGE (HORIZONTAL)	MAX. RANGE (VERTICAL)
4– 8″ (40)	13.5°	16,000 YARDS	
12– 6″ (40)	20°	14,200 YARDS	
4– 3″ (40)	85°	9,000 YARDS	
1– 3″ (40) AA	85°	9,000 YARDS	20,000 FEET

4–18″ TORPEDO TUBES; 18 EIGHTEEN AND 4 FOURTEEN INCH TORPEDOES CARRIED

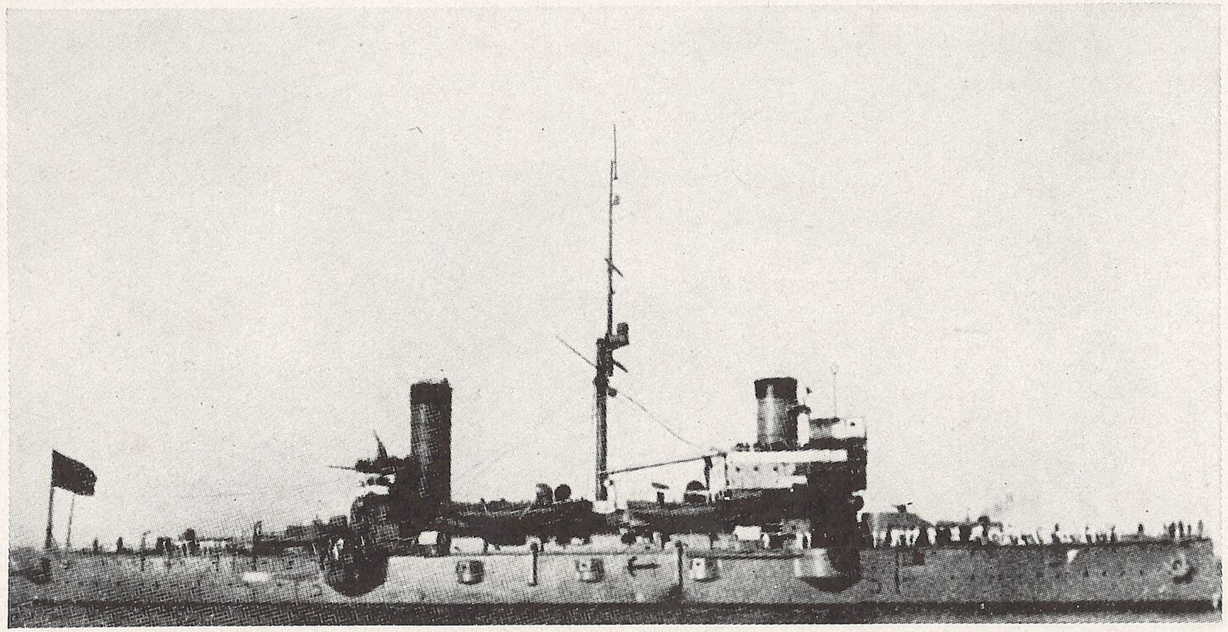
PROTECTION—
CONNING TOWER—10″
BELT— 7″ MAXIMUM (AMIDSHIPS); 3.5″ ENDS; 5″ SIDES ABOVE BELT
DECK— 2.5″ TURRETS—6″ CASEMATES—6″

PROPULSION—
MACHINERY—RECIPROCATING TRIPLE EXPANSION
BOILERS— TWENTY-FOUR BELLEVILLE FUEL—1,200 TONS, COAL
DESIGNED HP—9,400 MAXIMUM SPEED—16 KNOTS



AG—TRAINING VESSELS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



KASUGA (EX-OCA-6)—COMPLETED 1904

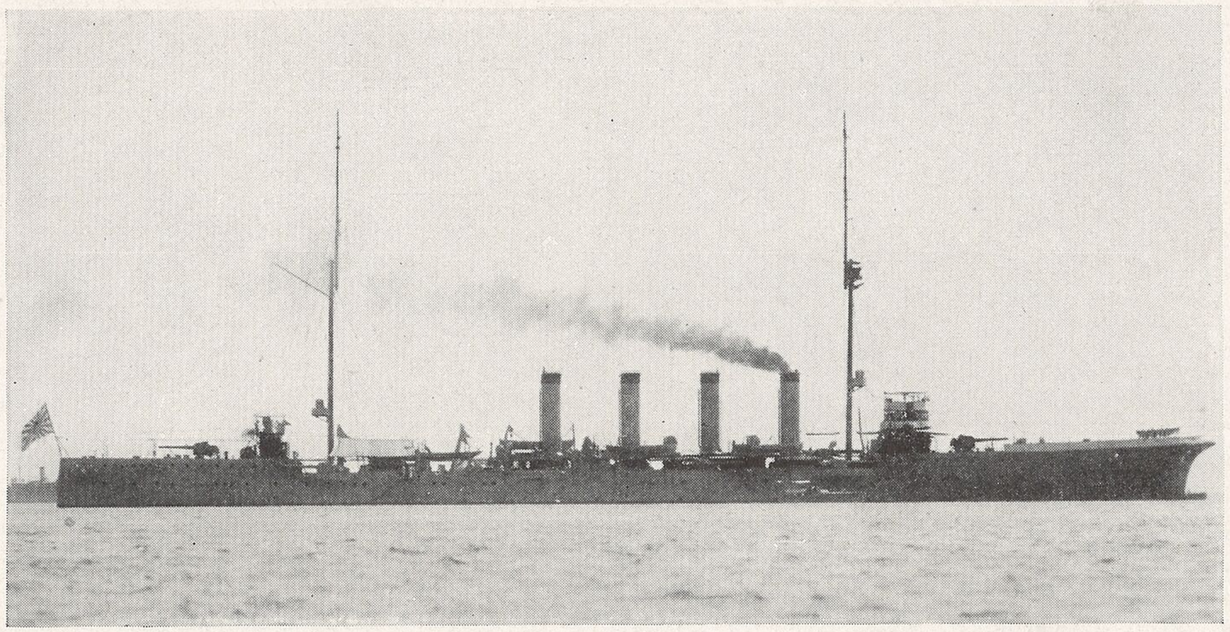
DIMENSIONS—367′2″ OA x 61′11″ x 25′3″ (MAXIMUM) 23′11″ (MEAN)

DISPLACEMENT—7,080 TONS (STANDARD); 7,700 TONS (NORMAL)

ARMAMENT—	MAX. ELEV.	MAX. RANGE (HORIZONTAL)	MAX. RANGE (VERTICAL)
1–10″ (45)	18°	17,950 YARDS	
2– 8″ (45)	20°	18,800 YARDS	
14– 6″ (45)	25°	18,900 YARDS	
4– 3″	85°		9,000 YARDS
1– 3″ AA	85°		9,000 YARDS

PROTECTION—
CONNING TOWER—5.5″
BELT— 6″ AMIDSHIPS; 4.5″ ENDS
DECK— 1.5″
TURRETS— 6″

PROPULSION—
MACHINERY— TWO TRIPLE EXPANSION RECIPROCATING
BOILERS— TWELVE KAMPON
FUEL— 1,200 TONS, COAL
DESIGNED HP— 13,500
DESIGNED SPEED—20 KNOTS @ 105 R.P.M.



HIRADO, YAHAGI (EX-OCL)—COMPLETED 1912

DIMENSIONS—475′ OA x 46′6″ x 17′8″ (NORMAL)

DISPLACEMENT—4,400 TONS (STANDARD)—4,950 TONS (NORMAL)

ARMAMENT—	MAX. ELEV.	MAX. RANGE (HORIZONTAL)	MAX. RANGE (VERTICAL)
8–6″	20°	14,200 YARDS	
4 (?)–3″ AA	85°		9,000 YARDS
2–AAMG			
3–18″ TORPEDO TUBES			

PROTECTION—
CONNING TOWER—4″
BELT— 3″ AMIDSHIPS, 2″ ENDS

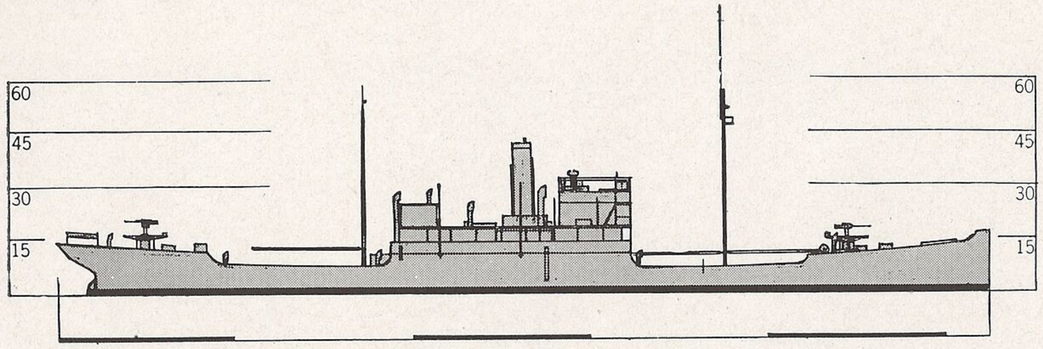
PROPULSION—
MACHINERY— GEARED TURBINES
BOILERS— 16 KAMPON
FUEL— COAL, 900 TONS—OIL, 300 TONS
DESIGNED HP— 29,500
MAXIMUM SPEED—26 KNOTS

THIS CLASS IS NO LONGER LISTED.

ONI 41-42 RESTRICTED

AGS—AG

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



SURVEYING VESSELS

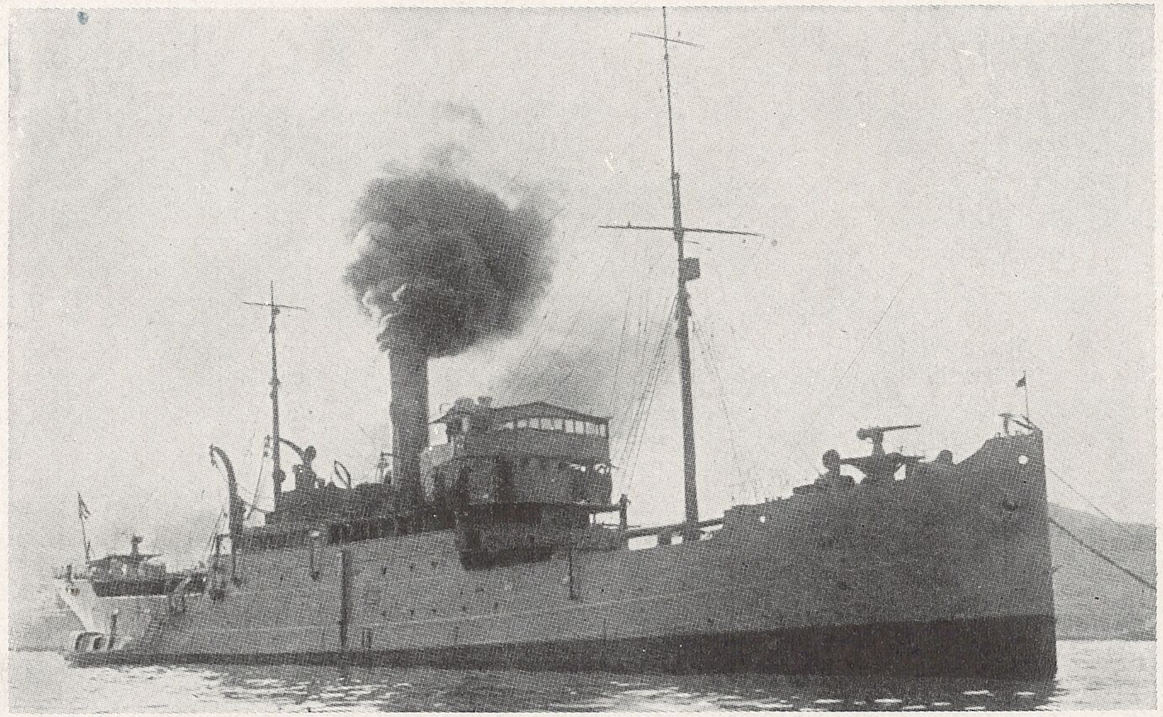
KOSHU—AGS-1 (EX-GERMAN—COMPLETED 1904)

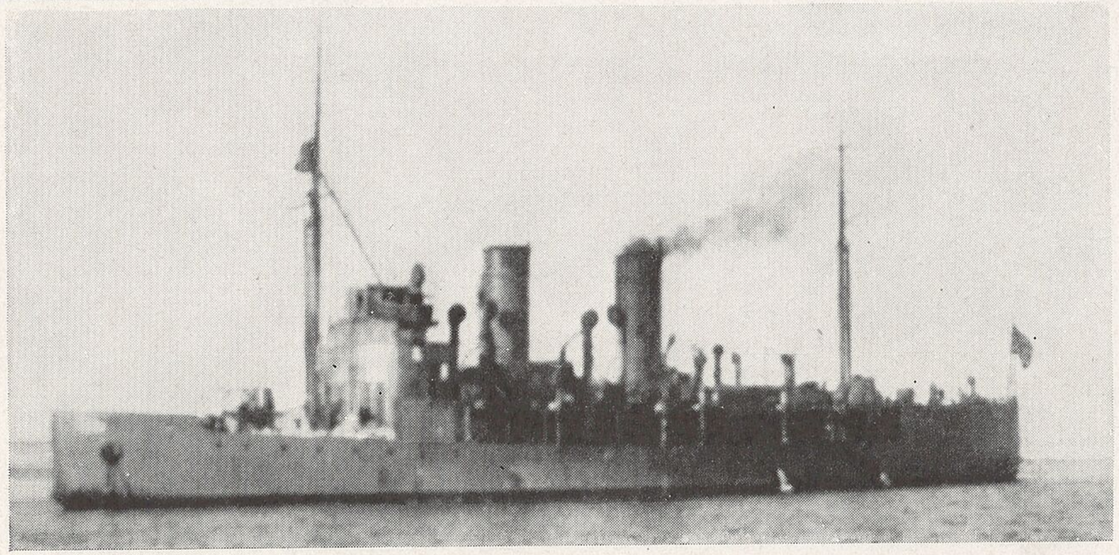
DIMENSIONS—264′ OA—252′6″ (PP) x 36′2″ x 22′3″ (MEAN)

DISPLACEMET—2,080 TONS (STANDARD)—2,270 TONS (NORMAL)
ARMAMENT— 2—3″ ?—AAMG
MACHINERY— TRIPLE EXPANSION
DESIGNED HP— 800
DESIGNED SPEED—10.3 KNOTS

TSUKUSHI (TUKUSI)—AGS-2—COMPLETED 1941

SOYA— AGS-3—COMPLETED 1942
DISPLACEMENT—2,000 TONS (E)





←**OTOMARI—ICE BREAKER**—BEGUN 6/24/21; COMPLETED—11/7/21

DIMENSIONS—200′ (PP) x 50′ x 21′ (MEAN)
DISPLACEMENT—2,330 TONS (STANDARD)
ARMAMENT— 1-3″
?-AAMG
DESIGNED HP—
DESIGNED SPEED—13 KNOTS

SETTSU—TARGET VESSEL—
COMPLETED AS OBB—1912; CONVERTED—1935
DIMENSIONS—500′ OA x 84′ x 23′ 3″ (MEAN)
DISPLACEMENT—16,130 TONS (STANDARD)
ARMAMENT— NONE
DESIGNED HP—
MAXIMUM SPEED—14.5 KNOTS

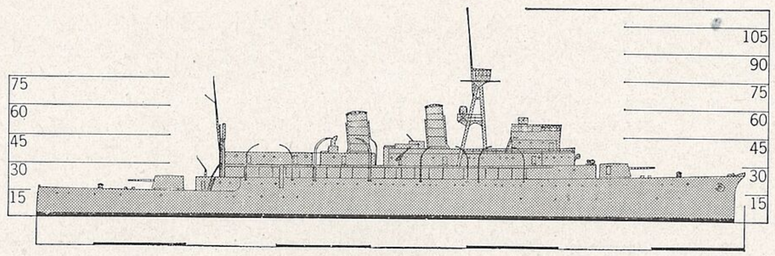
NOTE CENTER STACK REMOVED

YODO—PG-1— NOW LISTED AS SURVEYING VESSEL — SEE PG-GUNBOATS PAGES

JINGEI CLASS—AS 2, 3

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

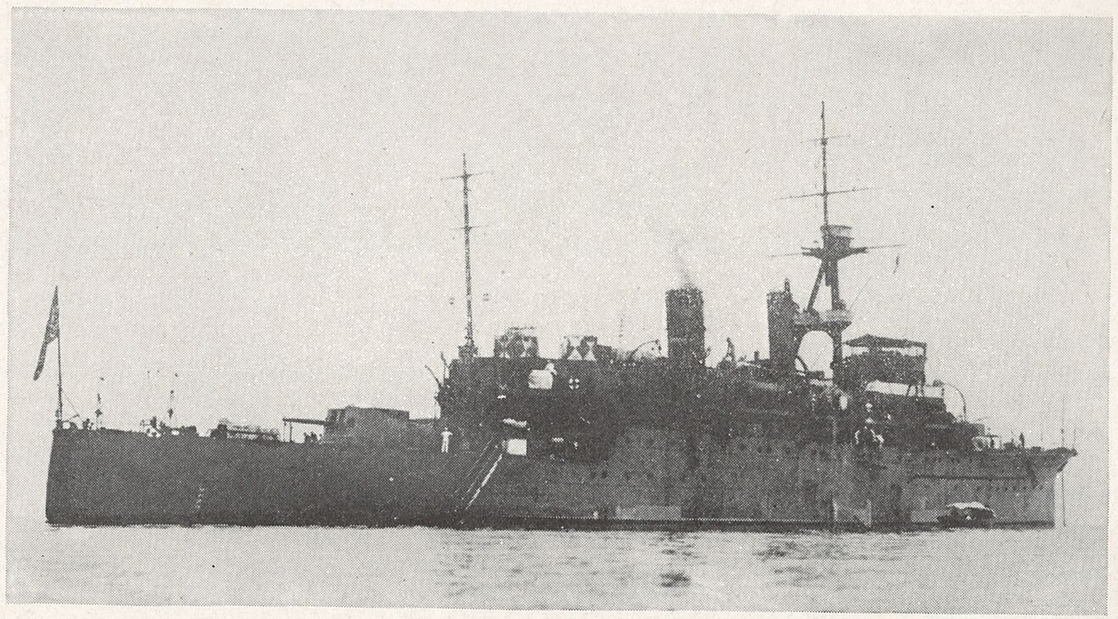
LENGTH—380′0″ OA
374′0″ WL
BEAM— 53′0″
DRAFT— 19′6″ (MEAN)
DISPLACEMENT—
5,160 TONS (STANDARD)
8,500 TONS (NORMAL)

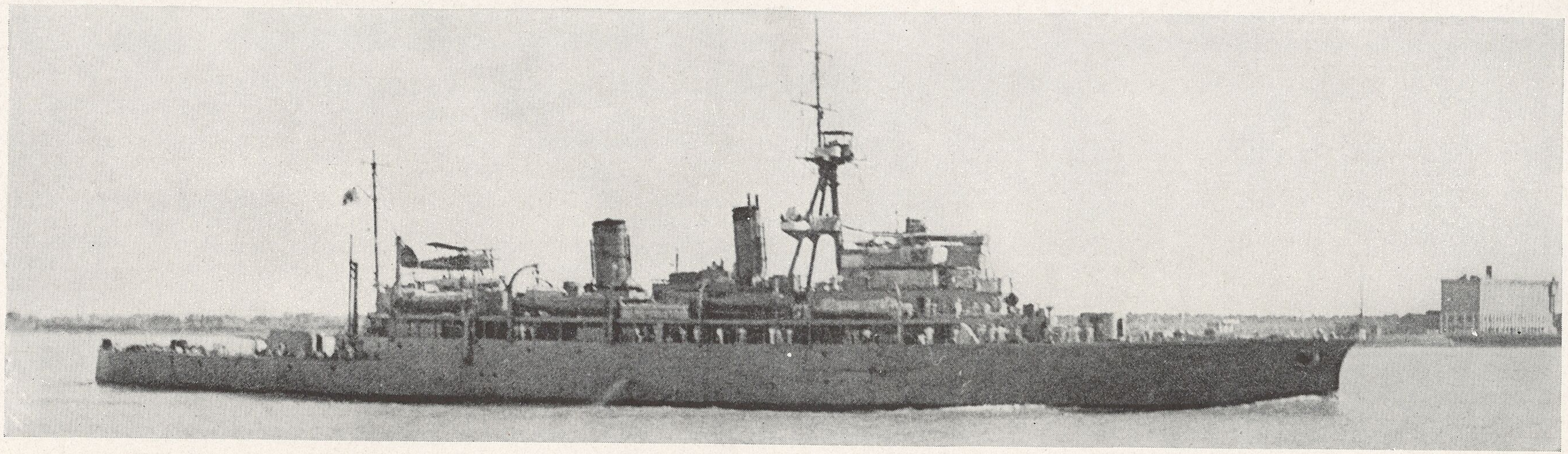


		MAX. ELEV.	MAX. RANGE
ARMAMENT—	4–5″.5	30°	19,000 YDS.
	2–3″ AA	85°	9,000 YDS.
	?–AAMG		
	1–SCOUT OBSERVATION	2–SEARCHLIGHTS	

PROPULSION—MACHINERY— GEARED TURBINES
BOILERS—6 KAMPON FUEL—OIL, 1,295 TONS
DESIGNED HP—8,400 DESIGNED SPEED—16 KNOTS @ 126 R.P.M.

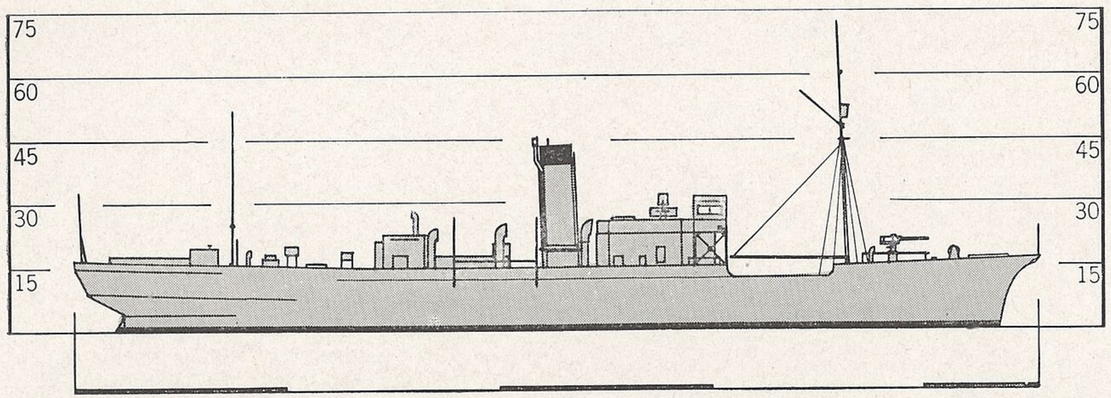
	BEGUN	COMPLETED
AS–2 JINGEI (ZINGEI)	9/16/22	8/30/23
AS–3 CHOGEI (TYOGEI)	3/16/22	8/ 2/24





AS—SUBMARINE TENDERS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

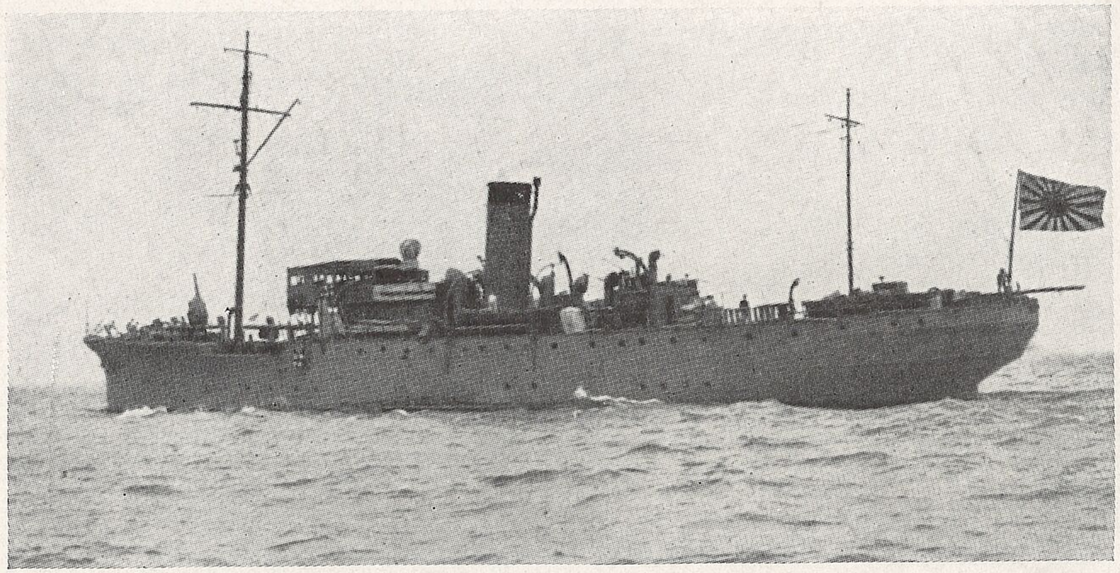


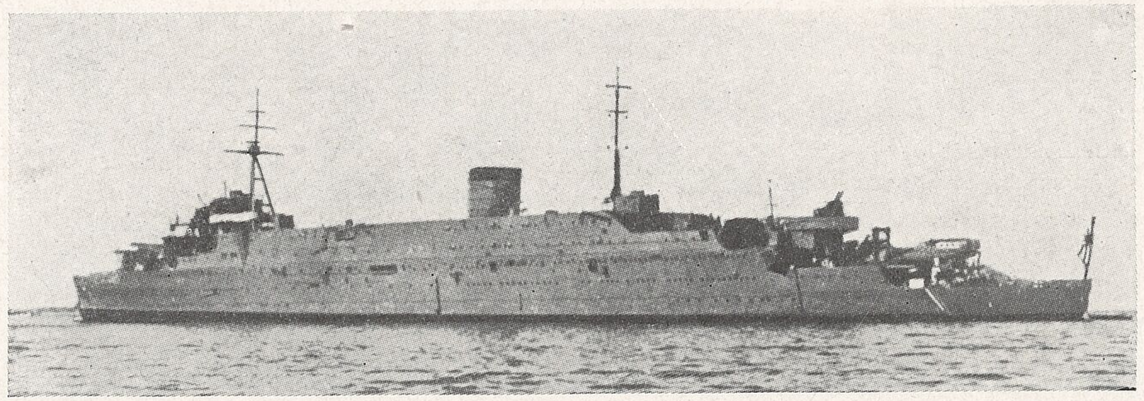
KOMABASHI—AS 1 1914

DIMENSIONS— 227′ OA x 35′ x 17′8″
DISPLACEMENT—1,125 TONS (STANDARD)—1,230 TONS (NORMAL)

ARMAMENT	MAX. ELEV.	MAX. RANGE (HORIZONTAL)	MAX. RANGE (VERTICAL)
2–3″			
2–3″ AA	85°	9,000 YARDS	20,000 FEET
2–12 PDR.			

MACHINERY—RECIPROCATING—TRIPLE EXPANSION FUEL—COAL
DESIGNED HP—1,824 MAXIMUM SPEED—14 KNOTS @ 118 R.P.M.





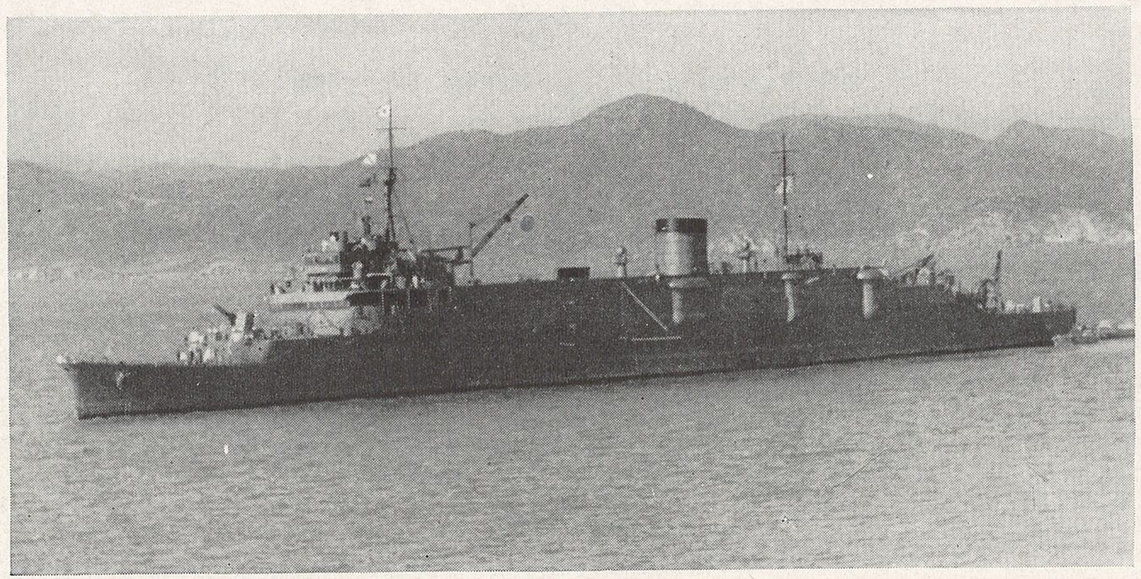
TAIGEI—AS 4 1934

DIMENSIONS— 647′4″ WL x 59′2″ x 17′
DISPLACEMENT—10,000 TONS (STANDARD)

ARMAMENT	MAX. ELEV.	MAX. RANGE (HORIZONTAL)	MAX. RANGE (VERTICAL)
4–5″ (50) AA	85°	19 000 YARDS	33,000 FEET

2 CATAPULTS—3 SCOUT OBSERVATION
MACHINERY— FOUR DIESELS FUEL— OIL
DESIGNED HP—13,000 MAXIMUM SPEED—20 KNOTS

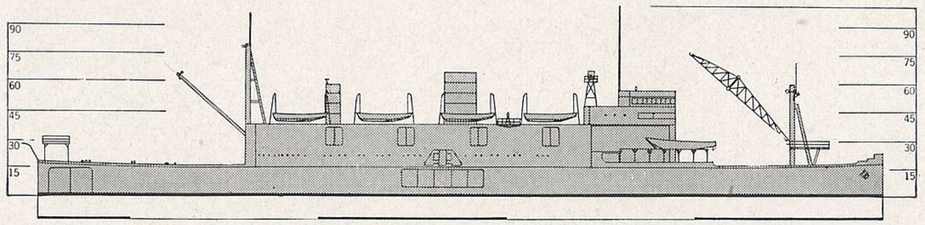
MAY BE CONVERTED INTO AN ACV



APA—LANDING CRAFT CARRIER

ONI 41-42

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JUNE, 1943



LENGTH—448′ OA BEAM—57′ DRAFT— —

DISPLACEMENT—7,500 TONS

ARMAMENT— 2–4″ (?) AA ?–AAMG 2–SEARCHLIGHTS

CAPACITY— APP. 140 LCI—8,600 TROOPS
10 LAUNCHES, 4 DESPATCH BOATS

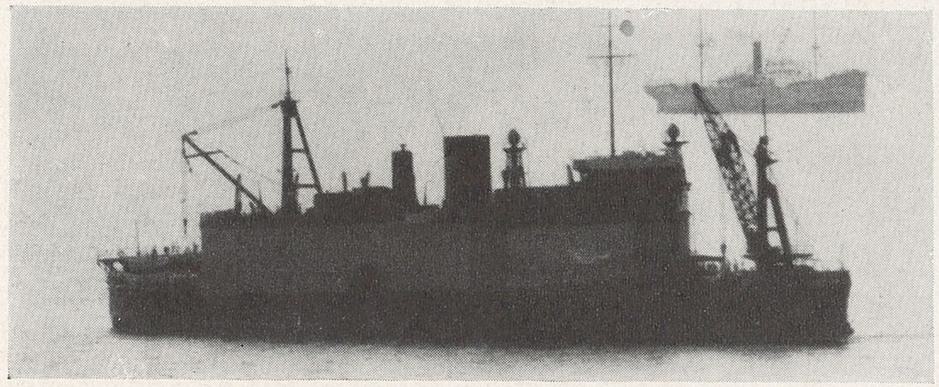
PROTECTION— SPLINTER ONLY

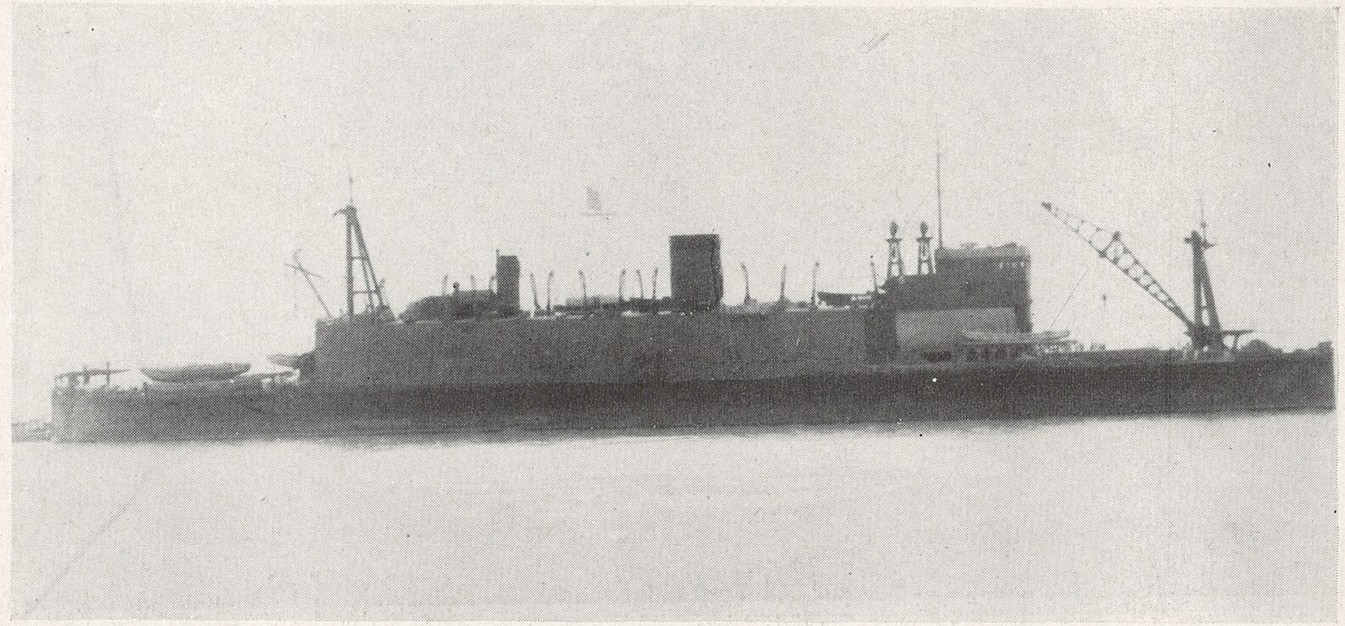
PROPULSION— MACHINERY—
BOILERS— FUEL—
DESIGNED HP— DESIGNED SPEED—18 KTS.

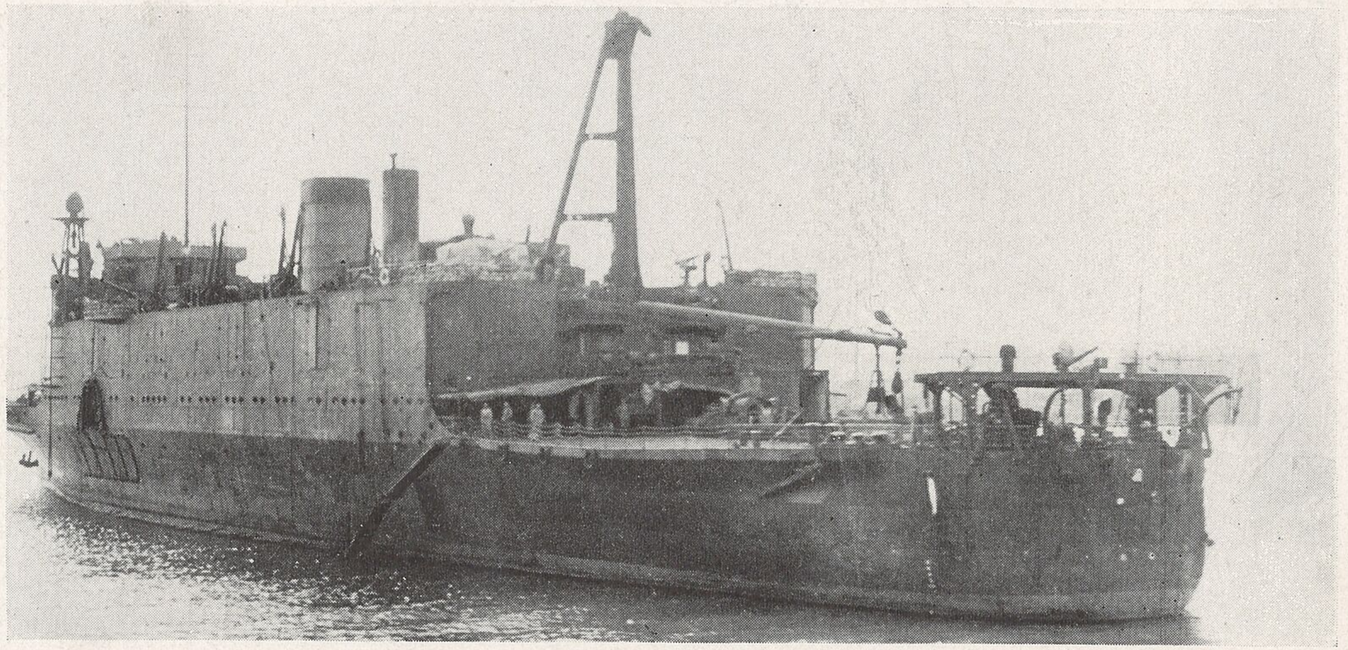
COMPLETED—1937 SISTERSHIPS REPORTED, UNVERIFIED

THIS SHIP HAS TAKEN PART IN MANY JAPANESE COMBINED OPERATIONS—SEE ONI 225–J "JAPANESE LANDING OPERATIONS AND EQUIPMENT" FOR FURTHER TREATMENT

PHOTOS—SHANGHAI, NOV. 13, 1937





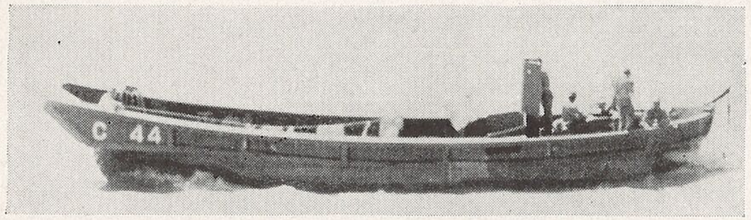


ONI 41-42

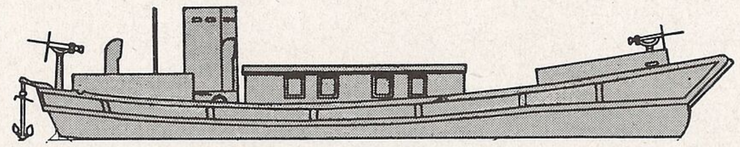
FOR FURTHER INFORMATION SEE
ONI 225-J — JAPANESE LANDING OPERATIONS AND EQUIPMENT

LANDING CRAFT

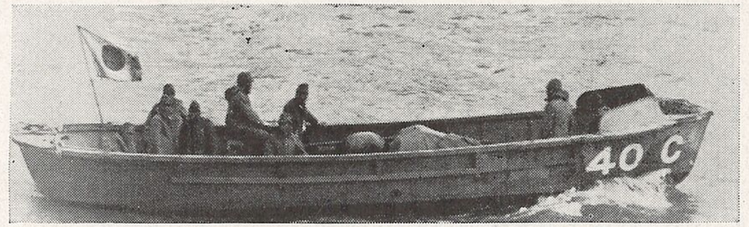
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



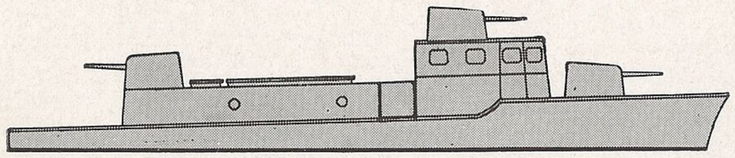
TYPE A—(ARMY) DIMENSIONS—47′ OA x 12′ BEAM
ARMAMENT— BOW MACHINE GUNS
CAPACITY— 100-120 TROOPS
SPEED— 8-10 KNOTS
MAY CARRY 2 TANKETTES



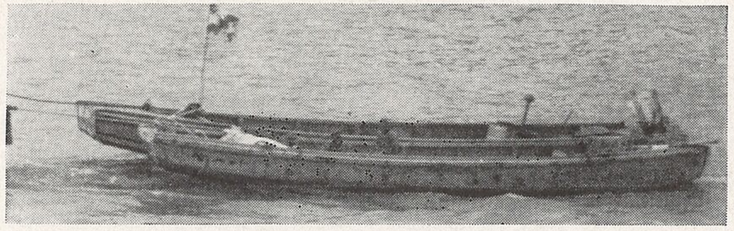
TYPE A—(NAVY) SIMILAR WITH BOW AND STERN MACHINE GUNS
CAPACITY—80 TROOPS
SPLINTER SHIELD AFT
DECKHOUSE ADDITION



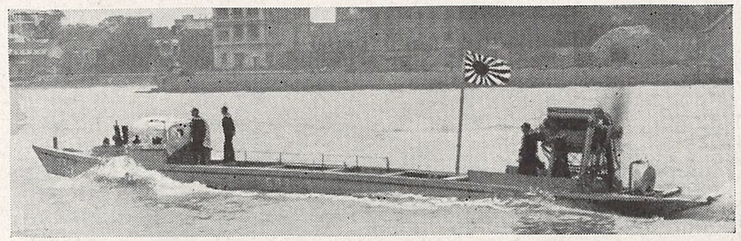
TYPE B— DIMENSIONS—30′4″ OA x 7′6″ BEAM
ARMAMENT— BOW MACHINE GUN (SHIELDED)
CAPACITY— 40 TROOPS
SPEED— 8-10 KNOTS



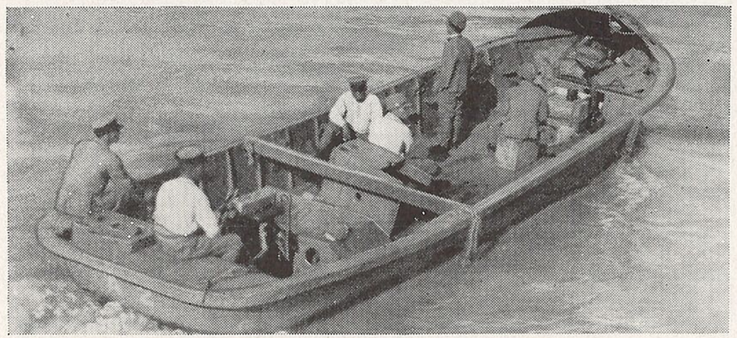
TYPE C— DIMENSIONS—49′ OA x 13′ BEAM
ARMAMENT— 1-.303″ MG IN TURRET
2-MG
CAPACITY— 50 TROOPS
SPEED— 25 KNOTS
STEEL PLATE CONSTRUCTION THROUGHOUT



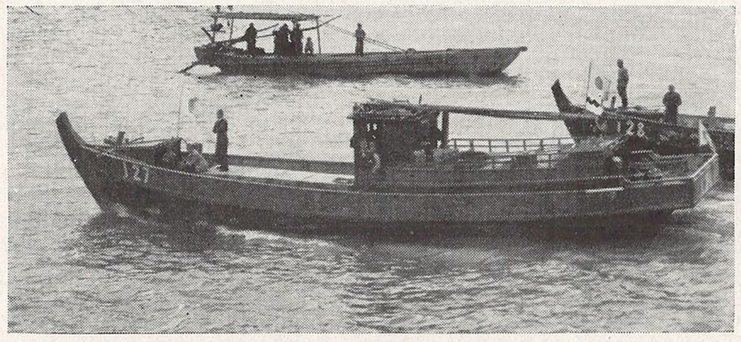
TYPE D— DIMENSIONS—38′6″ OA x 11′ BEAM
CAPACITY— 60 TROOPS
ARMAMENT, PROPULSION VARIABLE



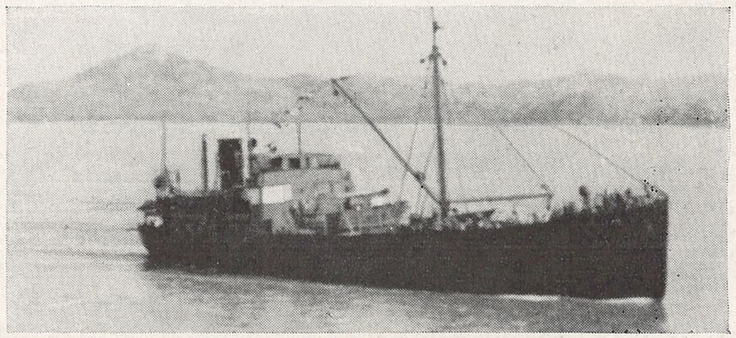
TYPE E— DIMENSIONS—63′2″ OA x 8′9″ BEAM
ARMAMENT— 1-2 MG (BOW SHIELDED)
CAPACITY— 60 TROOPS
SPEED— 10 KNOTS (AIRSCREW PROPELLED)



TYPE F— DIMENSIONS—21′ OA x 7′ BEAM
CAPACITY— 20 TROOPS
SPEED— 8-10 KNOTS
STEEL PLATE CONSTRUCTION



TYPE G— DIMENSIONS—52′1″ OA x 13′3″ BEAM
CAPACITY— 50 TROOPS
SPEED— 8 KNOTS
USED MAINLY AS EQUIPMENT LIGHTER



LANDING CRAFT MAY BE TRANSPORTED OR TOWED BY MISCELLANEOUS CARGO TYPES, AS SHOWN ABOVE

MISCELLANEOUS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JULY, 1943

PTC—NAMES AND NUMBERS UNKNOWN

(A)—DIMENSIONS—200′ x 24′ x 9′
ARMAMENT— 1-2″ 3-AAMG
2-TORPEDO TUBES AFT

(B)—DIMENSIONS—120′ x 24′ x 7′
ARMAMENT— 1-2″ 2-AAMG
1-TORPEDO TUBE AFT

(C)—DIMENSIONS—80′-100″ x 20′ x 7′
ARMAMENT— 1-2″ 1-3 AAMG
2-TORPEDO TUBES AFT (VARIABLE)

PT—50 OR MORE—APPEARANCE UNKNOWN

(D)—DIMENSIONS—32′6″ x 6′6″
ARMAMENT— 1 AAMG
2-TORPEDO TUBES
1-D.C. GUN
4-DEPTH CHARGES

DESIGNED HP— 400

MAXIMUM SPEED—45 KNOTS

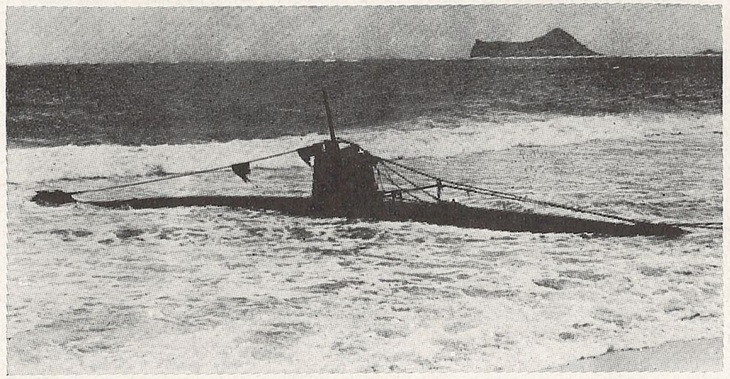
ENGINE—RADIAL AIRCOOLED AIRCRAFT TYPE

(E)—DIMENSIONS—49′ x 9′9″
ARMAMENT— SAME AS (D)
MAXIMUM SPEED—30 KNOTS

(F)—BUILDING
DIMENSIONS—32′6″ x 6′
ARMAMENT— SAME AS (D)
MAXIMUM SPEED—45 KNOTS
STEEL FRAME, WOOD PLANK CONSTRUCTION, PROPELLED BY AIRCRAFT (RADIAL) ENGINES

2 THORNYCROFT 55′ MTB—1923

1 EXPERIMENTAL—1925



IX—MIDGET SUBMARINES—NUMBERS UNKNOWN

CARRIED BY I-CLASS SS OR MOTHER SHIPS
DIMENSIONS— 80′ OA x 6′
DISPLACEMENT— 40-50 TONS (STANDARD)
ARMAMENT— 2-18″ TORPEDOES (BOW)
300 LB. DEMOLITION CHARGE
MAXIMUM SPEED—24 KNOTS
ENDURANCE— 70 MILES @ 12 KNOTS
170 MILES @ 6 KNOTS

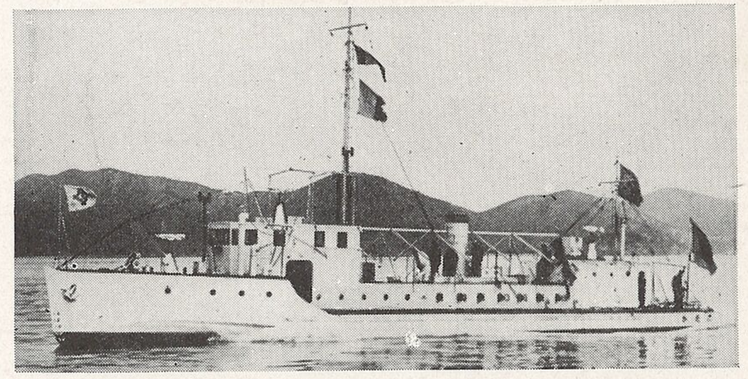
ANOTHER TYPE— 41′ OA x 5′ BEAM

AT—TUGS
APPEARANCE, CHARACTERISTICS UNKNOWN
YOKOSUKA—NOS. 1, 3-7
KURE— NOS. 1, 3-6
SASEBO— NOS. 2-5
MAIZURU— NOS. 1-3—313 TONS
RYOJUN— NO. 1
KAIYO— NOS. 1-4

"MISCELLANEOUS DUTY" BOATS
COASTAL, HARBOR, RIVER EMPLOYMENT

EX-ODD—NIRE
ASHI
KAKI
SUMIRE
(SEE ODD—MOMO CLASS FOR DETAILS)

SOME OF THESE VESSELS ARE CONVERTED FOR DMS DUTY



EX-PR—KOTAKA—1930

DIMENSIONS— 98′5″ PP x 16′1″ x 2′2″ (MEAN)
DISPLACEMENT—50 TONS (STANDARD)
ARMAMENT— 5 AAMG

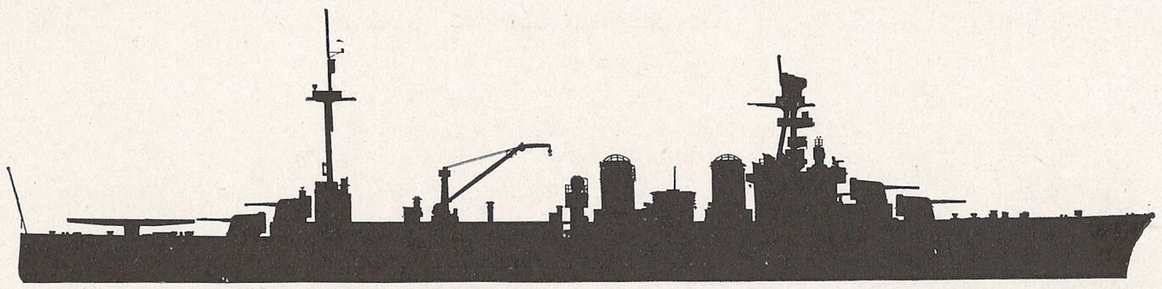
CHIKUBU—1940
(SISTERSHIP TO PR—SUMIDA CLASS)

ONI 41-42 RESTRICTED

UNITED NATIONS' WARSHIPS AVAILABLE TO JAPAN

SEIZURES

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



← **CL—LAMOTTE-PICQUET (FRANCE) 1927**

DIMENSIONS— 594′ 10″ OA x 57′ 5″ x 17′ 3″ (MEAN)

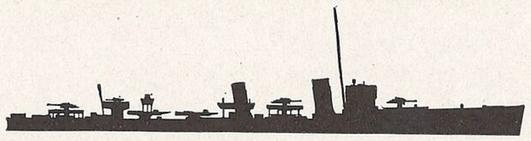
DISPLACEMENT—7,249 TONS (STANDARD)

ARMAMENT— 8–6.1″ (50)
4–3″ (60)
12–21.7″ TORPEDO TUBES
1–AIRCRAFT CARRIED

DESIGNED HP—102,000 DESIGNED SPEED—33 KNOTS

DD—DESTROYERS

U. S.—STEWART—1919—FLUSH-DECKER TYPE



GB—THRACIAN 3/31/22

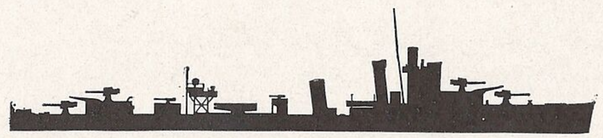
DIMENSIONS— 276′ 2″ OA x 26′ 10″ x 9′ 2″ (MEAN)

DISPLACEMENT—905 TONS (STANDARD)

ARMAMENT— 3–4″ 1–12″ PDR AA
4–21″ TORPEDO TUBES 1–2 PDR

DESIGNED HP— 27,000

DESIGNED SPEED—36 KNOTS



GB—VOYAGER 5/8/18

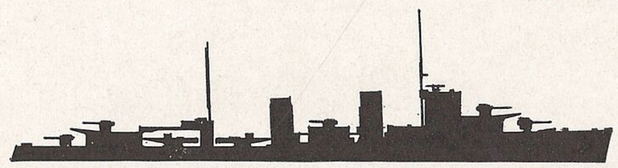
DIMENSIONS— 312′ OA x 29′ 6″ x 10′ 10″ (MEAN)

DISPLACEMENT—1100 TONS (STANDARD)

ARMAMENT— 4–4″
6–21″ TORPEDO TUBES

SHAFT HP—27,000

DESIGNED SPEED 34 KNOTS



NETHERLANDS

BANCKERT, WITTE DE WITH 1928–29

DIMENSIONS— 322′ OA x 31′ 3″ x 10′ (MAXIMUM)

DISPLACEMENT—1316 TONS (STANDARD)

ARMAMENT— 4–4.7″ (50)
1–3″ AA PLUS 9 SMALLER 6–21″ TORPEDO TUBES

SHAFT HP—31,000 DESIGNED SPEED—36 KNOTS

SS—SUBMARINES

US—S-36

NETHERLANDS—K-7—1920

K-10—1922

DIMENSIONS— 210′ 3″ OA x 17′ 9″ x 11′ 8″

DISPLACEMENT—521/712 TONS

ARMAMENT— 1–3.5″ AA 1–AAMG
4–17.7″ TORPEDO TUBES

HORSEPOWER—1500/630 SPEED—16/9.5 KNOTS

K-13 12/24

DIMENSIONS— 218′ 9″ OA x 19′ x 12′ 6″

DISPLACEMENT—611/815 TONS

ARMAMENT —1–3.5″ 1–AAMG
2–21″ TORPEDO TUBES
4–17.7″ TORPEDO TUBES

HORSEPOWER—2400/ SPEED—17/8 KNOTS

K-18 9/32

DIMENSIONS —242′ 3″ OA x 25′ x 12′ 8″

DISPLACEMENT—782/1024 TONS

ARMAMENT —1–3.5″ 2–AAMG
8–21″ TORPEDO TUBES

HORSEPOWER—3200/1000

SPEED—17/9 KNOTS

SEIZURES

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

CM—CMc—MINELAYERS

GB—REDSTART 5/3/38

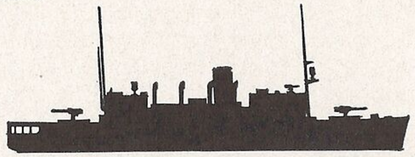
DIMENSIONS— 163′9″ OA x 27′2″ x 8′

DISPLACEMENT—498 TONS

INDICATED HP— 400

SPEED— 10.5 KNOTS

NETHERLANDS



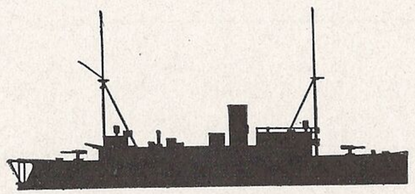
GOUDEN LEEUW 9/31

DIMENSIONS— 216′ x 36′ x 11′

DISPLACEMENT—1291 TONS

ARMAMENT— 2–3″ AA 6-AAMG

HORSEPOWER— 1750 SPEED—15 KNOTS



KRAKATAU 1924

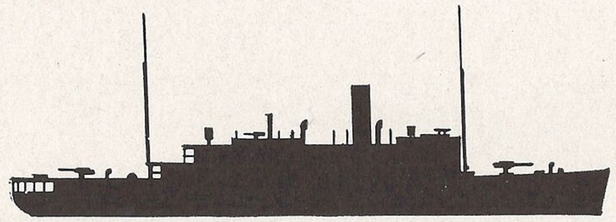
DIMENSIONS— 213′ x 34′6″ x 10′6″

DISPLACEMENT—982 TONS

ARMAMENT— 2–3″ AA 4–MG

HORSEPOWER— 2500

SPEED— 15.5 KNOTS



NETHERLANDS

RIGEL 1929

DIMENSIONS— 242′9″ OA x 36′3″ x 10′

DISPLACEMENT—1631 TONS

ARMAMENT— 2–3″ 2–AAMG

HORSEPOWER— 1400 SPEED—12.5 KNOTS

PRO PATRIA 1922

DIMENSIONS— 154′ x 28′3″ x 9′3″

DISPLACEMENT—537 TONS

ARMAMENT— 1–3″ AA 2–MG

HORSEPOWER— 650 SPEED—10 KNOTS

PR—RIVER GUNBOATS

GB—MOTH— 625 TONS

ROBIN—226 TONS

TERN— 262 TONS

PT—MOTOR TORPEDO BOATS

GB—8 IN NUMBER

AM—MINESWEEPERS

NETHERLANDS

PIETER DE BITTER, ELAND DUBOIS 10/36

DIMENSIONS— 183′ x 25′6″ x 7′

DISPLACEMENT—525 TONS

ARMAMENT— 1–3″ (55) 5–AAMG

HORSEPOWER— 1690 SPEED—15 KNOTS

A, B, C, D 1929–30

DIMENSIONS— 140′6″ x 19′9″ x 5′

DISPLACEMENT—179 TONS

HORSEPOWER— 700

SPEED— 14 KNOTS

NAVAL AUXILIARIES

U. S.—AS—CANOPUS

AT—NAPA

GB—AO—EBONOL

WAR SIRDAR

AG—ALDGATE, BARLIGHT, MAN YEUNG, WAI FOONG, WATERGATE

SIAMESE (THAILAND) NAVAL VESSELS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

SIAMESE (THAILAND) NAVAL VESSELS—LIST BY DESIGN CLASSES

PRINCIPAL COMBATANT TYPES

LIGHT CRUISERS

"MODIFIED REGOLO" CLASS

CL1	NO. 1	—BUILDING IN ITALY
CL2	NO. 2	—BUILDING IN ITALY

DESTROYERS

DD1	PHRA RUANG	(EX-HMS RADIANT)

SUBMARINES

VIRUN CLASS

SS1	VIRUN
SS2	MACHANU
SS3	SINSAMUDAR
SS4	BLAI JUMBOL

FOUR SUBMARINES—PROJECTED

MINOR COMBATANT TYPES

COAST DEFENCE SHIPS

RATANAKOSINDRA CLASS

CD1	RATANAKOSINDRA
CD2	SUKHODAYA

DHAMBURI CLASS

CD3	DHAMBURI	—SUNK. SALVAGED & REFITTING
CD4	SRI AYUDHYA	—REFITTING

TORPEDO-BOATS

SUA-TAYANCHOL CLASS

TB1	SUA-TAYANCHOL	—STATUS DOUBTFUL
TB2	SUA-KHAMRONSINDHU	—STATUS DOUBTFUL

No. 1 CLASS

TB3	NO. 1	—STATUS DOUBTFUL
TB4	NO. 2	—STATUS DOUBTFUL
TB5	NO. 3	—STATUS DOUBTFUL
TB6	NO. 4	—STATUS DOUBTFUL

TRAD CLASS

TB7	TRAD	(NO. 11)	
TB8	PUKET	(NO. 12)	
TB9	PATTANI	(NO. 13)	
TB10	SURASDRA	(NO. 21)	
TB11	CHANDARABURI	(NO. 22)	
TB12	RAYONG	(NO. 23)	
TB13	JUMBARA	(NO. 31)	
TB14	CHOLBURI	(NO. 32)	—REPORTED WAR LOSS
TB15	SONGKLA	(NO. 33)	—REPORTED WAR LOSS

"MODIFIED SPICA" CLASS

TB16	NO. 1	—BUILDING IN ITALY
TB17	NO. 2	—BUILDING IN ITALY
TB18	NO. 3	—BUILDING IN ITALY

GUNBOATS

PG1 MONGKUT RAJAKUMARN (EX-SPANISH FILIPINAS)

BALI CLASS

PG2	BALI	—STATUS DOUBTFUL
PG3	SUGRIB	
PG4	SURIYA MONTHON	

TAHCHIN CLASS

PG5	TAHCHIN
PG6	MAEKLONG

TWO SLOOPS—PROJECTED

SUBMARINE CHASERS

KLONGYAI CLASS

PC1	KLONGYAI
PC2	TAKUBAI
PC3	KANTANG

FIVE OF 100 TO 110 TONS —REPORTED BUILDING
SEVEN PC'S —PROJECTED

MOTOR TORPEDO-BOATS

THORNYCROFT 55-Ft. DESIGN

PT1	NO. 1	—STATUS DOUBTFUL
PT2	NO. 2	
PT3	NO. 3	
PT4	NO. 4	
PT5	NO. 5	

THORNYCROFT 16-TON DESIGN

PT6	NO. 6
PT7	NO. 7
PT8	NO. 8

FOUR UNITS BELIEVED COMPLETING
TWENTY UNITS—PROJECTED

NAVAL AUXILIARIES

OIL TANKERS

AO1	SAMUI	
AO2	NO. 2	—PROJECTED

TRANSPORTS

AP1	CUONG	(EX-PRA YOM)
AP2	CHANG	(EX-VIDES KICHKAR; EX-BUK; EX-LYCIDAS)
AP3	ANGTHONG	(EX-ROYAL YACHT-MAHA CHAKKRI)

PANGAN CLASS

AP4	PANGAN
AP5	SICHAUN

TUG

AT1	SAMET	(EX-PI-SUA-NAM)

SURVEYING SHIPS

HAN THALE CLASS

AGS1	HAN THALE
AGS2	LIEU THALE
AGS3	CHEN THALE

CHAO PHRA

AGS4	(EX-HMS HAVANT)

DISTRICT CRAFT

COASTAL MINE LAYERS

BANGRADIAN CLASS

CMc1	BANGRADIAN
CMc2	NONG SARAI
CMc3	NO. 3 —PROJECTED

PATROL VESSELS

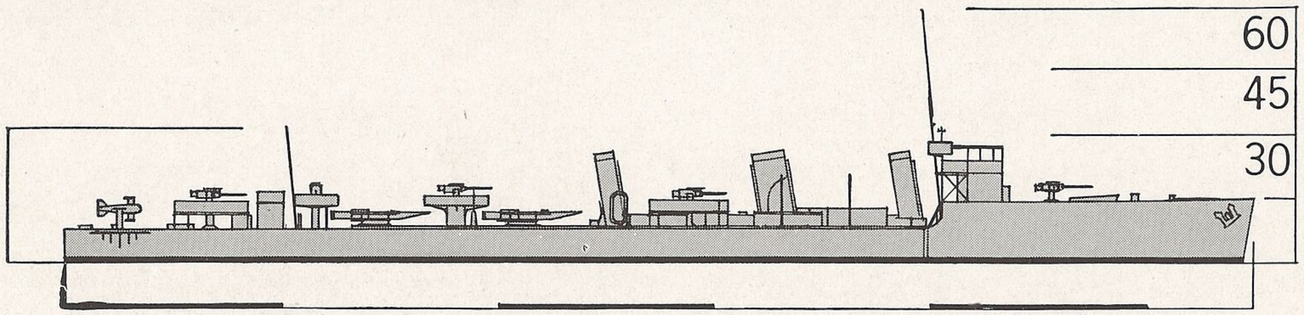
SARA SINDHU CLASS

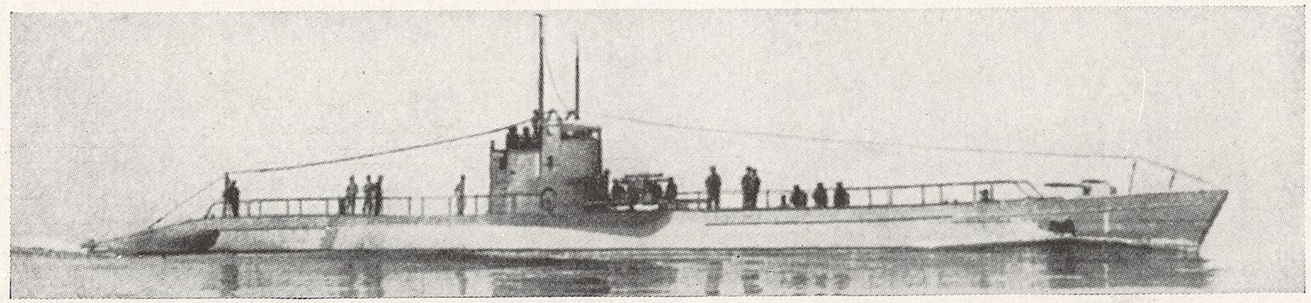
YP1	SARA SINDHU	
YP2	THIEW UTHOK	
YP3	TRAVANE VARI	
YP4	NO. 4	—PROJECTED
YP5	NO. 5	—PROJECTED
YP6	NO. 6	—PROJECTED

SIAMESE (THAILAND) NAVAL VESSELS

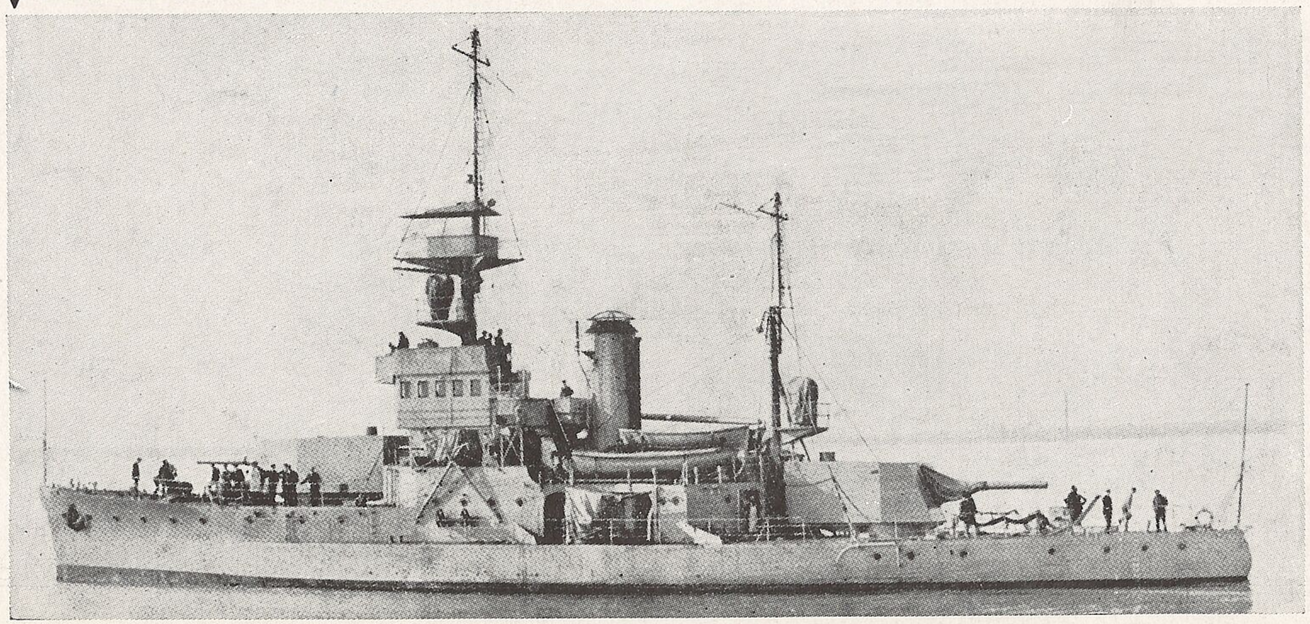
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

ONI 41-42





↓ **SUKHODAYA—CD-2**—FOREMAST SINCE LOWERED, MAINMAST HEIGHTENED.



PHRA RUANG — DD-1—(EX-HMS RADIANT) — COMPLETED — 1917
PURCHASED—1920

DIMENSIONS— 274′0″ OA x 27′4″ x 11′1″ (MAXIMUM)
DISPLACEMENT— 718 TONS (STANDARD); 1037 TONS (NORMAL)
ARMAMENT—
- 3—4″
- 1—2 PDR MULTIPLE
- 1—AAMG
- 4—21″ TORPEDO TUBES

FUEL— OIL, 285 TONS
DESIGNED HP— 29,000
DESIGNED SPEED—35 KNOTS

VIRUN CLASS—SS 1-4 COMPLETED—1938

DIMENSIONS— 164′1″ x 13′5″ x 11′10″ (MAXIMUM)
DISPLACEMENT— 325 TONS (STANDARD) SURFACE
ARMAMENT—
- 1—AAMG
- 5—21″ TORPEDO TUBES

DESIGNED HP— 1000/540
DESIGNED SPEED—14½/8 KNOTS

RATANAKOSINDRA CLASS—CD-1, 2

DIMENSIONS— 175′0″ OA x 36′11″ x 10′9″ (MAXIMUM)
DISPLACEMENT— 886 TONS (STANDARD), 918 TONS (NORMAL)

ARMAMENT—	MAX. ELEV.	MAX. RANGE
2—6″	30°	20,430 YARDS
4—4″ (50) AA	90°	11,160 YARDS

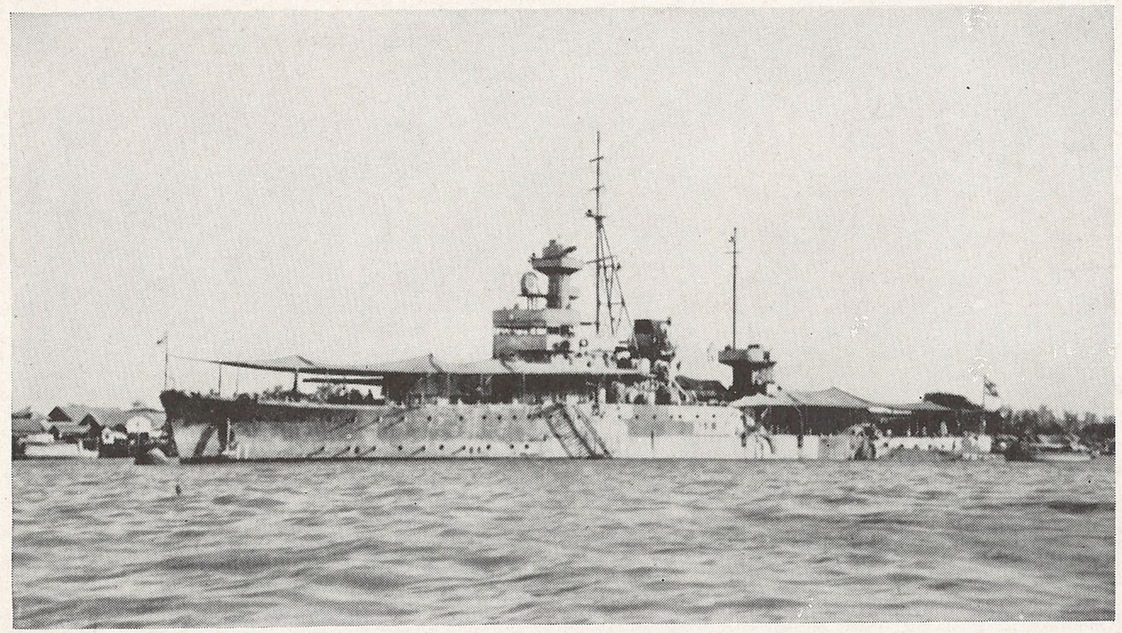
PROTECTION—
- BELT— 2½″ AMIDSHIPS; 1¼″ ENDS
- BARBETTES— 2½″
- CONNING TOWER—4¾″

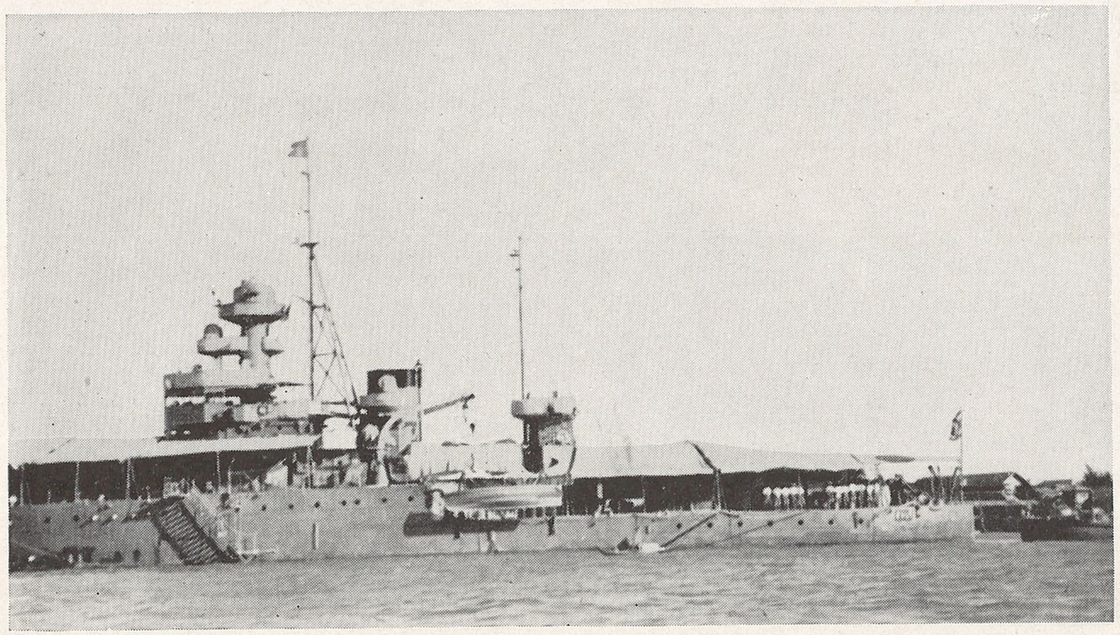
PROPULSION—
- MACHINERY— TRIPLE EXPANSION
- BOILERS— 2 WATER TUBE
- FUEL— OIL, 96-102 TONS
- DESIGNED HP— 850
- DESIGNED SPEED—12-13 KNOTS

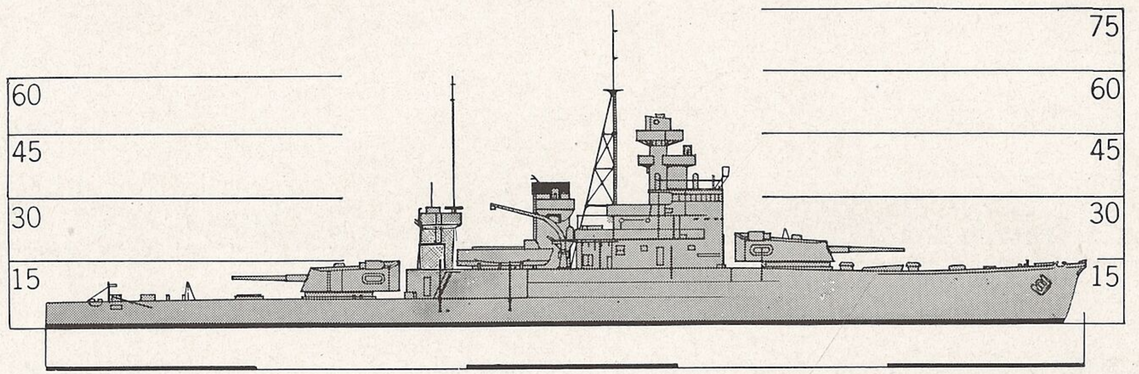
RATANAKOSINDRA—CD-1—COMPLETED: 8/25
SUKHODAYA— CD-2—COMPLETED: 3/17/30

DHAMBURI CLASS—CD-3, 4

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943







DHAMBURI CLASS—CD—3, 4 BUILT IN JAPAN

DIMENSIONS
- LENGTH—246′ 1″ OA
- BEAM— 42′ 8″
- DRAFT— 13′ 10″ (MAXIMUM)

DISPLACEMENT—2,015 TONS (STANDARD)

ARMAMENT — MAX. ELEV. — MAX. RANGE
- 4—8″
- 4—3″
- 4—AAMG

PROTECTION—LIGHT ARMOR BELT

PROPULSION
- MACHINERY— 2 SETS DIESELS
- FUEL— OIL, 150 TONS
- DESIGNED HP— 5200
- DESIGNED SPEED— 15.5 KNOTS

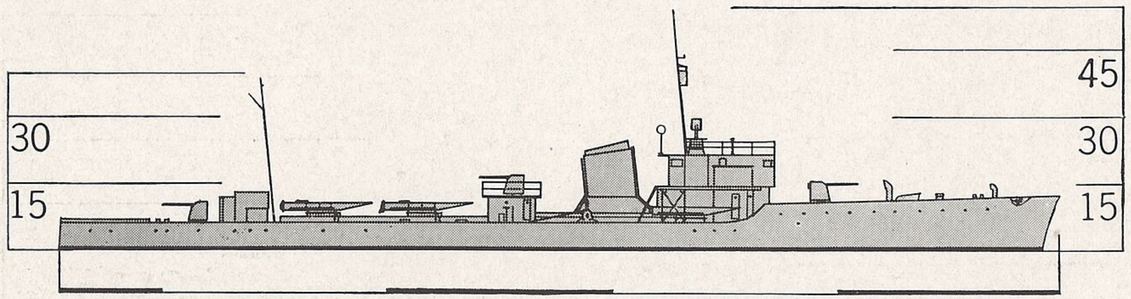
		BEGUN	COMPLETED
CD—3	**DHAMBURI**	7/6/37	8/5/38
CD—4	**SRI AYUDHYA**	1936	6/16/38

BOTH GROUNDED IN ACTION WITH FRENCH 1/16/41; NOW REFITTING

SIAMESE (THAILAND) NAVAL VESSELS

DNI 41-42

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943



TRAD CLASS—TB 7-15 BUILT IN ITALY

LENGTH—223′ 1″ OA; 219′ 10″ WL

BEAM— 20′ 10″ — 21′ 2″

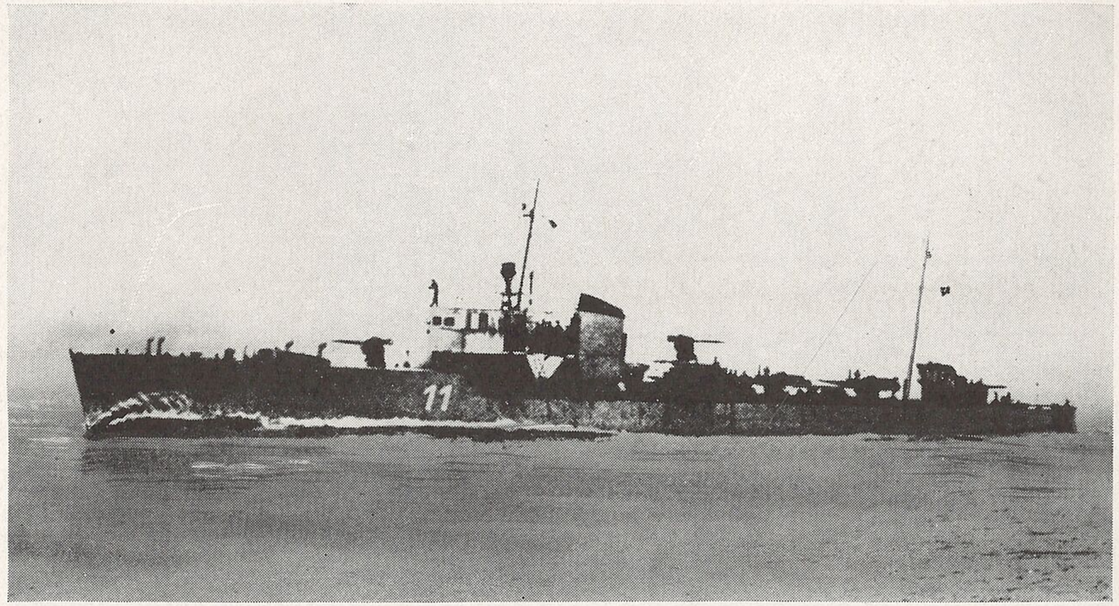
DRAFT— 6′ 4″ (MEAN); 7′ 0″ (MAXIMUM)

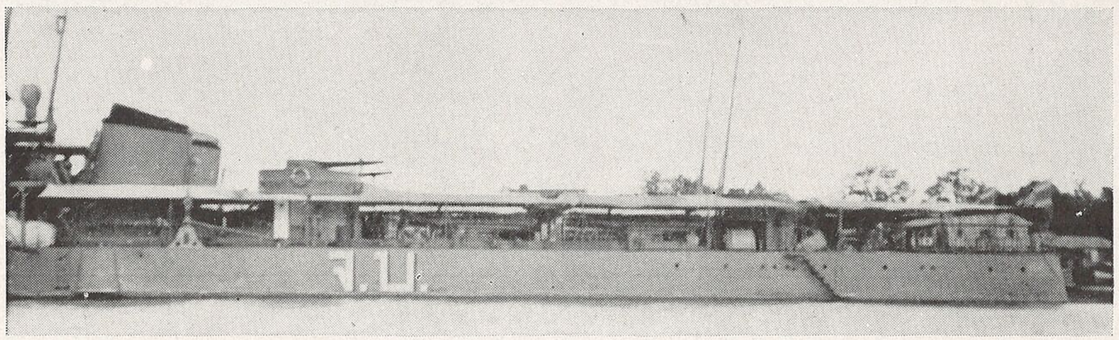
DISPLACEMENT—385—470 TONS (STANDARD)

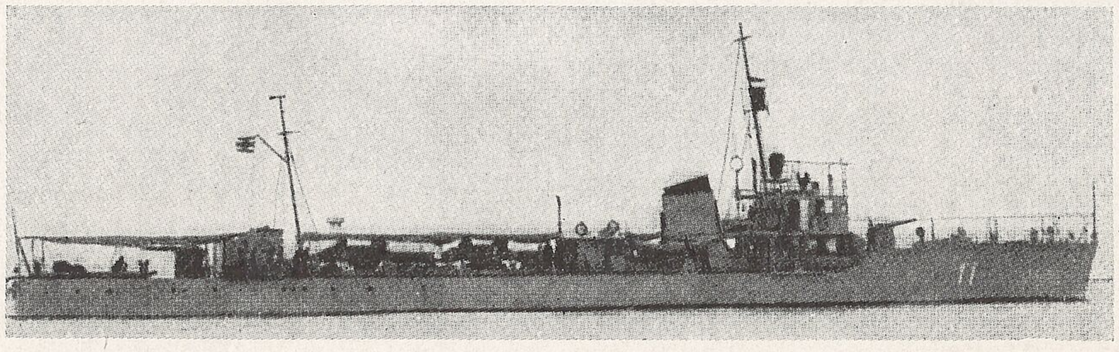
ARMAMENT
- 3—3″ DP
- 4—.79″ TWINS
- 6—18″ TORPEDO TUBES

PROPULSION
- MACHINERY— PARSONS GEARED TURBINES
- BOILERS— YARROW
- FUEL— OIL, 76-102 TONS
- DESIGNED HP— 9,000-10,000
- DESIGNED SPEED—31 KNOTS
- ENDURANCE— 3500 @ 12 KNOTS
  1700 @ 15 KNOTS

		BEGUN	COMPLETED
TB 7—TRAD	**(NO. 11)**	2/ 8/35	1/21/36
TB 8—PUKET	**(NO. 12)**	2/ 8/35	1/21/36
TB 9—PATTANI	**(NO. 13)**	3/26/36	3/37
TB 10—SURASDRA	**(NO. 21)**	3/26/36	3/37
TB 11—CHANDARABURI	**(NO. 22)**	3/26/36	3/37
TB 12—RAYONG	**(NO. 23)**	6/ 6/36	3/37
TB 13—JUMBARA	**(NO. 31)**	1/11/37	4/37
TB 14—CHOLBURI	**(NO. 32)**	SUNK BY FRENCH—1941	
TB 15—SONGKIA	**(NO. 33)**	SUNK BY FRENCH—1941	



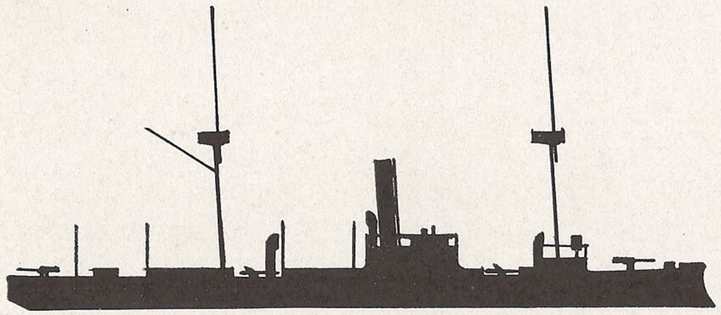




ONI 41-42 RESTRICTED

SIAMESE (THAILAND) NAVAL VESSELS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943



SILHOUETTE APPLICABLE TO PG 1-4

MONGKUT RAJAKUMARN; PG-1—1887—NOW TRAINING VESSEL

DIMENSIONS— 175′0″ OA x 23′6″ x 11′0″ (MEAN)
DISPLACEMENT—700 TONS (NORMAL)
ARMAMENT
- 2—4.7″
- 2—6 PDR
- 3—3 PDR

BALI, SUGRIB—PG-2, 3—1901

DIMENSIONS— 162′0″ OA x 23′0″ x 10′0″ (MEAN)
DISPLACEMENT—413 TONS (NORMAL)

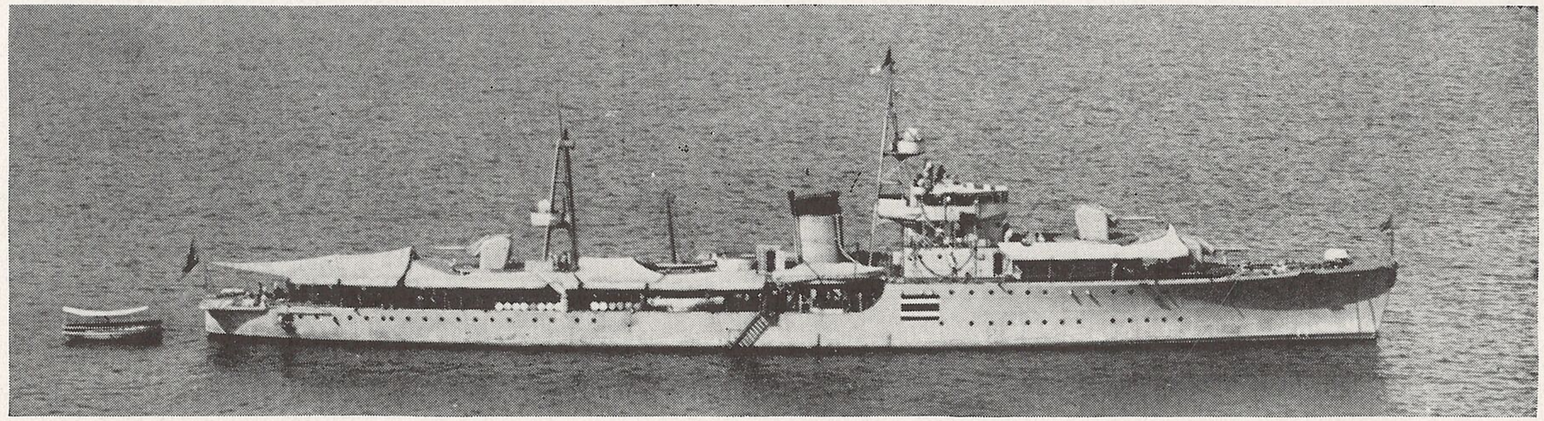
SURIYA MONTHON—PG-4—1908

DIMENSIONS— 137′0″ PP x 18′0″ x 6′6″ (MEAN)
DISPLACEMENT—225 TONS (NORMAL)
ARMAMENT
- 1—6 PDR
- 4—MG

---

2 SLOOPS—BEGUN 1937—TO BE USED FOR CADET TRAINING

DIMENSIONS— 280′0″ OA x 34′6″
ARMAMENT— 4—4.7″; 4—?″ TORPEDO TUBES
DESIGNED SPEED—18 KNOTS

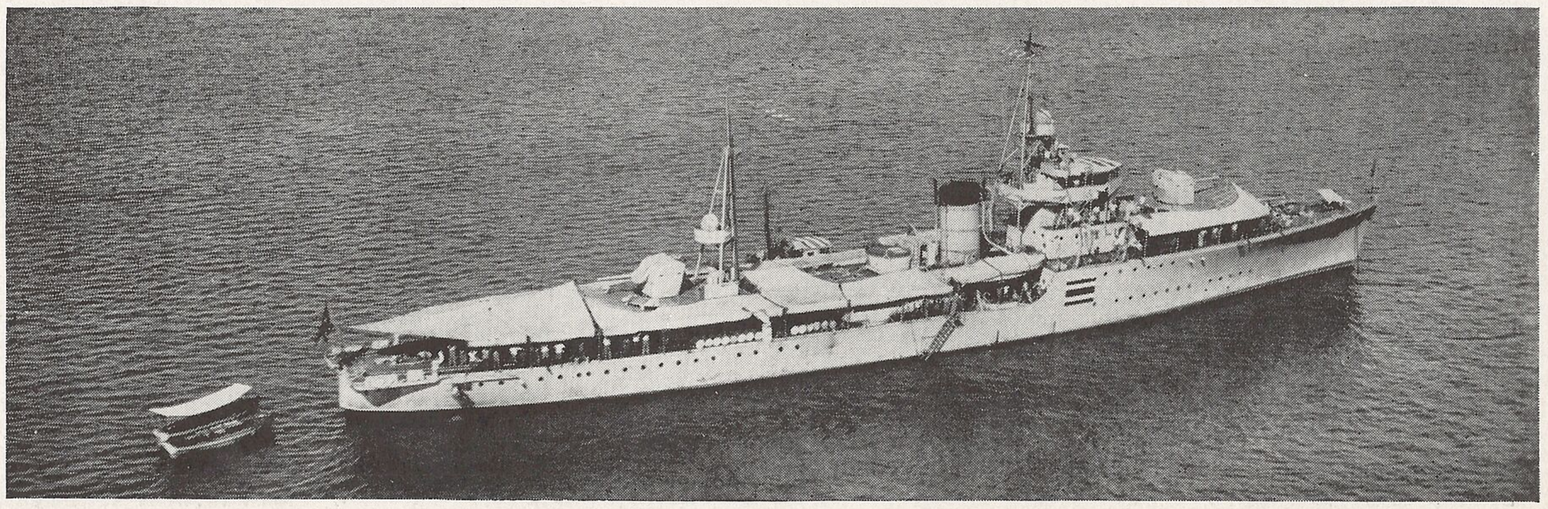


TAHCHIN CLASS—PG-5, 6—BUILT AS CADET TRAINING SHIPS

DIMENSIONS— 269′3″ WL x 34′5″ x 10′3″ (MEAN)
DISPLACEMENT—1400 TONS (STANDARD)
ARMAMENT
- 4—4.7″ (45)
- 2—.5″ AAMG
- 4—12″ TORPEDO TUBES
- 20 MINES
- ? DEPTH CHARGES
- 1 SCOUT OBSERVATION PLANE
- FITTED FOR MINESWEEPING

PROPULSION MACHINERY— TRIPLE EXPANSION
BOILERS— 2 WATER TUBE
FUEL— OIL, 487 TONS
DESIGNED HP— 2500
DESIGNED SPEED—17 KNOTS
ENDURANCE— 3000 @ 12 KNOTS

	BEGUN	COMPLETED
PG-5 TAHCHIN	3/12/36	6/37
PG-6 MAEKLONG	7/24/36	6/37



SIAMESE (THAILAND) NAVAL VESSELS

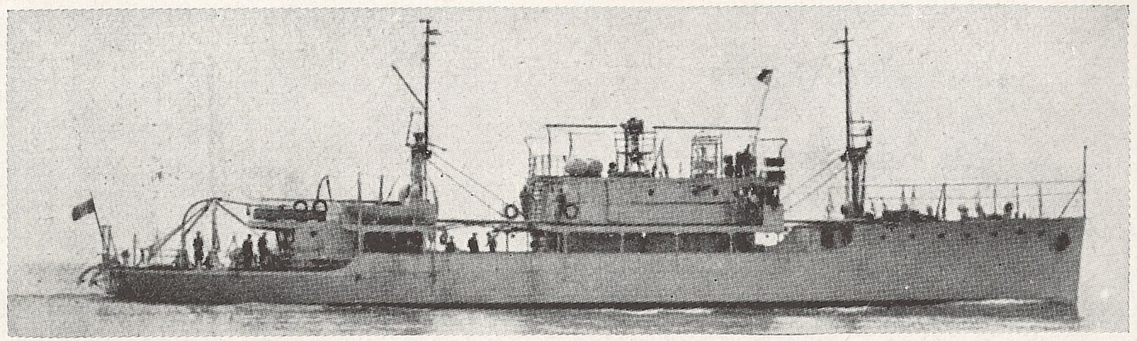
ONI 41-42

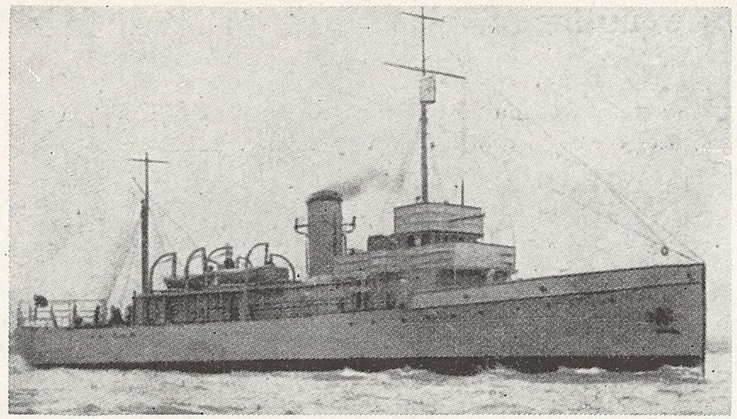
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

BANGRADIAN CLASS—CMC 1-2

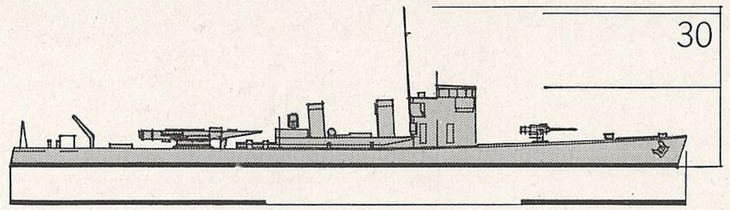
DIMENSIONS— 160'9" WL x 26'1" x 6'6" (MAXIMUM)
DISPLACEMENT—368 TONS (STANDARD)
ARMAMENT— 2-3" 142 MINES
DES. HP— 540
DES. SPEED— 12 KNOTS

	BEGUN	COMPLETED	
CMC-1 (S-1)—BANGRADIAN	1/20/36	11/28/36	BUILT IN ITALY
CMC-2 (S-2)—NONG SARAI	1/20/36	11/28/36	BUILT IN ITALY





CHAO PHRA—(EX-HMS HAVANT)
COMPLETED 1918-19; PURCHASED 1923
DIMENSIONS— 231'0" OA x 28'7"x7'6" (MAXIMUM)
DISPLACEMENT—669 TONS (STANDARD)
840 TONS (NORMAL)
PROPULSION
MACHINERY—TRIPLE EXPANSION
BOILERS— YARROW
FUEL— OIL, 160 TONS
DES. HP— 2,200
DES. SPEED—16 KNOTS

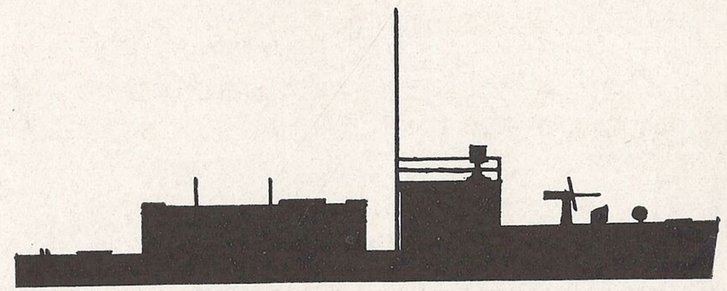


KLONGYAI CLASS—PC—1-3

DIMENSIONS— 131'5" WL x 15'5" x 4'1" (MAXIMUM)
DISPLACEMENT—110 TONS (STANDARD)
ARMAMENT— 1-3" 4-.79" AAMG
2-18" TORPEDO TUBES
DES. HP— 1000 DES. SPEED—18 KNOTS

	BEGUN	COMPLETED
PC-1—**KLONGYAI**	10/3/36	6/37
PC-2—**TAKUBAI**	10/3/36	6/37
PC-3—**KANTANG**	10/3/36	6/37

2 OF 110 TONS BEGUN—1938



SARA SINOHU CLASS—YP—1-3

COMPLETED 11/36
DIMENSIONS— 72'2" OA x 13'1" x3'1" (MEAN)
DISPLACEMENT—50 TONS (STANDARD)
ARMAMENT— 1-1.46"
DES. HP— 150
DES. SPEED— 9.5 KNOTS

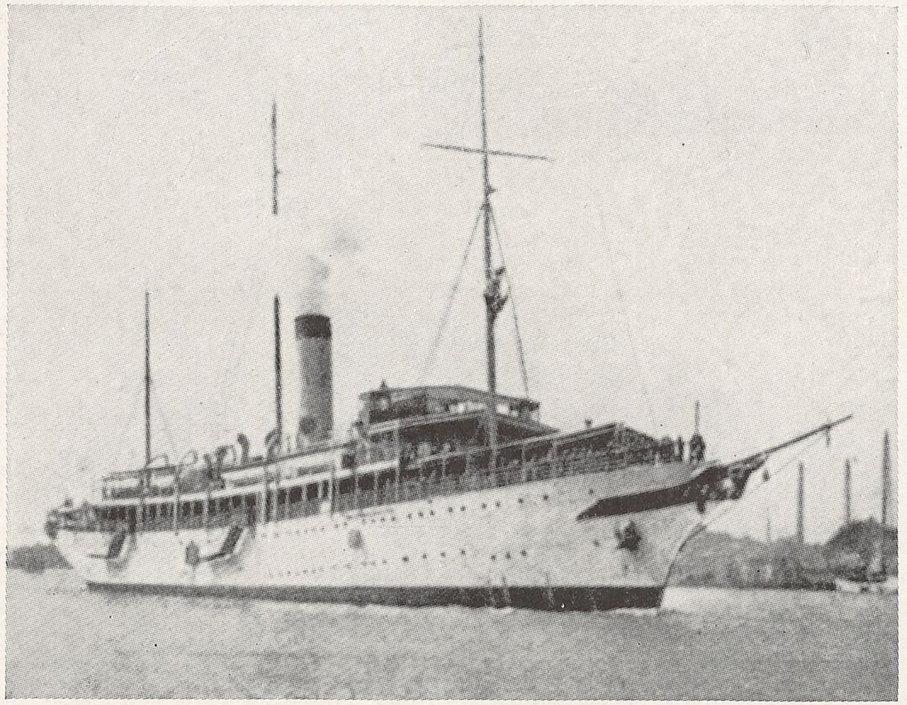
NOS. 1-5 PT 1-5—1922 (THORNYCROFT TYPE)
DIMENSIONS— 55'0" OA x 11'0" x 2'1" (MEAN)
DISPLACEMENT—11 TONS (STANDARD)
ARMAMENT—2 AAMG 2-18" TORPEDO TUBES 2 DEPTH CHARGES
DES. HP— 750
DES. SPEED—37 KNOTS

NOS. 6-9 PT 6-9—1935 (THORNYCROFT TYPE)
DIMENSIONS—53'9" WL x 11'0" x 2'1" (MEAN)
ARMAMENT— 2 AAMG 2-18" TORPEDO TUBES 2 DEPTH CHARGES
DES. HP— 950 DES. SPEED—42 KNOTS

4 UNITS BEGUN 1936—55'0", 11 TONS, 35 KNOTS

SIAMESE (THAILAND) NAVAL VESSELS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943



ANGTHONG—AP-3 COMPLETED 1918, REBUILT 1937

DIMENSIONS— 335'3" OA x 40'0" x ?

DISPLACEMENT—2716 TONS (NORMAL)

ARMAMENT—

4-3"

PROPULSION—

MACHINERY— 2 SETS TRIPLE EXPANSION

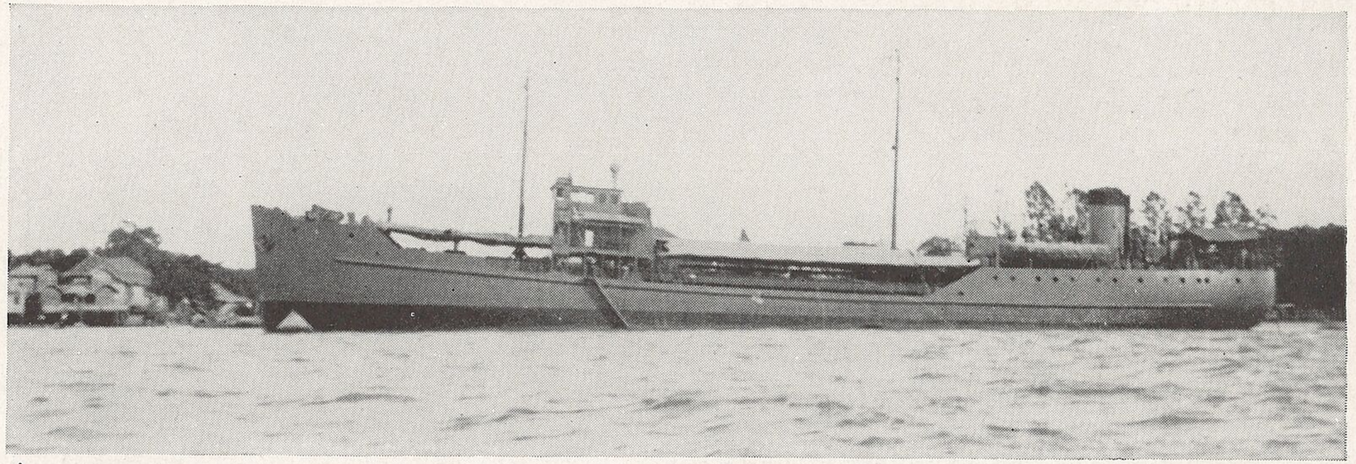
BOILERS— 4 KAMPON

FUEL— OIL, 200 TONS

DESIGNED HP— 2000

DESIGNED SPEED—15 KNOTS

ALSO EMPLOYED AS SUBMARINE TENDER.



↑ **SAMUI—AO-1** 8/36

DIMENSIONS—249'4" OA x 42'8" x 13'11" (MEAN)

DISPLACEMENT— 1800 TONS (STANDARD)

DESIGNED HP— 2140

DESIGNED SPEED—12-13 KNOTS

ANOTHER OILER OF 150 TONS CAPACITY PROJECTED.

CUONG—AP-1—108 TONS (STANDARD)

CHANG—AP-2—443 TONS (STANDARD)

SIMILAR WITH MAINMAST ABAFT BRIDGE.

SAMET—AT-1

DIMENSIONS—100'0" OA x 20'0" x 8'6" (MAXIMUM)

DISPLACEMENT—89 TONS (STANDARD)

HAN THALE CLASS—AGS—1-3

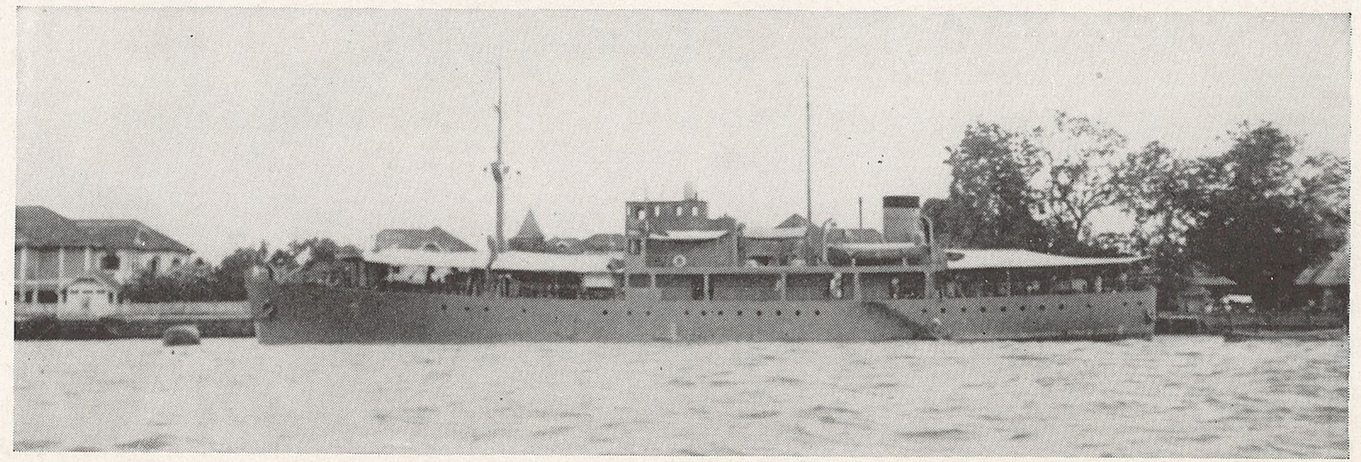
DIMENSIONS—160'0" OA x 27'0"

DISPLACEMENT—443 TONS (STANDARD)

↓ **PANGAN, SICHAUN—AP-4, 5**— COMPLETED 1/38

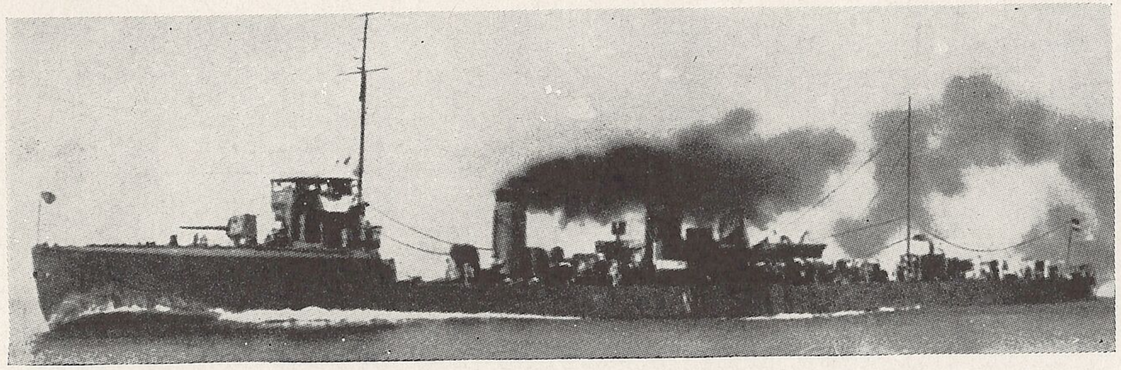
DISPLACEMENT—650 TONS (STANDARD)

MACHINERY— DIESEL



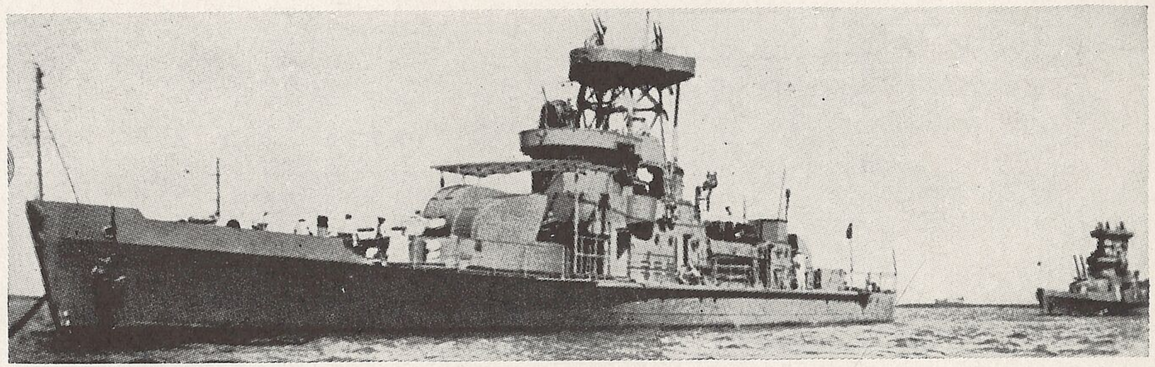
MANCHUKUAN NAVAL VESSELS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

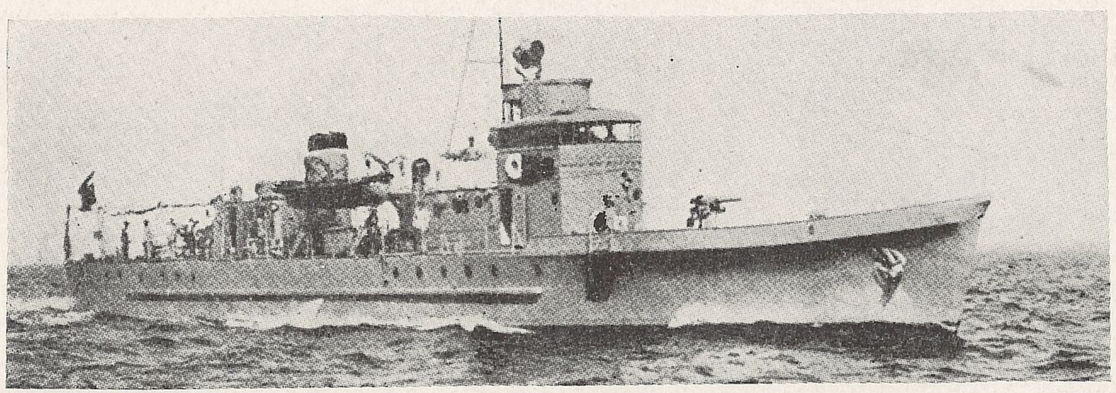


HAI WEI—(EX-JAPANESE KASI, MOMO CLASS)—ACQUIRED 1937

DIMENSIONS— 275′ PP x 25′ x 7′9″ (MEAN)
DISPLACEMENT— 835 TONS (NORMAL)
ARMAMENT— 3-4″7 (45), 6-18″ TORPEDO TUBES
DES. HORSEPOWER—16,000 DESIGNED SPEED—31.5 KNOTS

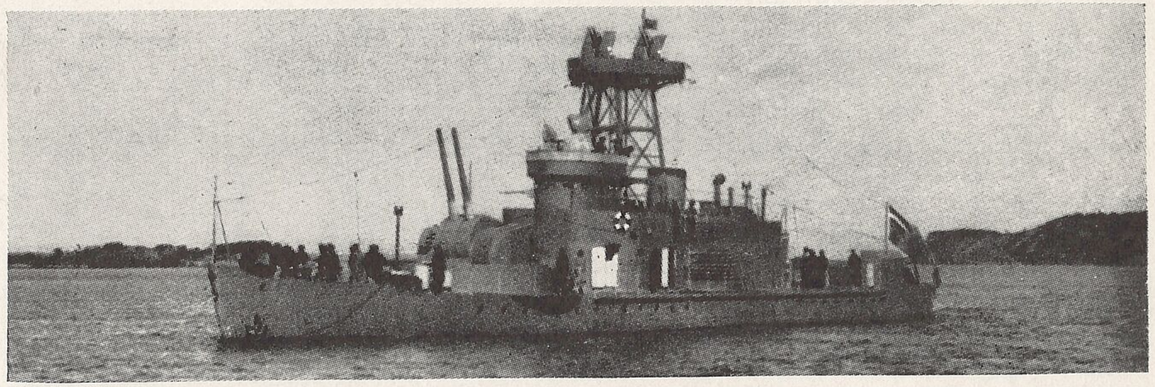


PR—RIVER GUNBOATS
TINGPIEN, CHINGJEN— COMPLETED 1935
DIMENSIONS— 191′11″ OA x 28′10″ x 3′6″ (—5′?) (MAXIMUM)
DISPLACEMENT— 290 TONS (STANDARD)
ARMAMENT— 2-4.7″ MAX. ELEV. 85°
6-AAMG
DESIGNED HP 680
MAXIMUM SPEED— 15 KNOTS



YP—PATROL CRAFT—
HAILUNG, HAIFENG— 1933
DIMENSIONS— 148′6″ OA 20′4″ x 4′6″ (MEAN)
DISPLACEMENT— 184 TONS (STANDARD)
ARMAMENT— 2—3.1″ 2-AAMG ?-DEPTH CHARGES
MACHINERY— 2 SETS DIESEL
DESIGNED SPEED—14 KNOTS SIMILAR TO JAP PC-3 CLASS

HAI KUANG, HAI JUI, HAI JUNG, HAI HUA, 1933—42 TONS
DAICHI, KAIHEN, KAINI KAIHEN.
4 OR MORE ARMED LAUNCHES—15-20 TONS



SHUN TIEN, YANG MIN— COMPLETED 1934
DIMENSIONS— 180′5″ OA x 28′10″ x 2′10″ (MAXIMUM)
DISPLACEMENT—265 TONS (STANDARD)
ARMAMENT— 2-4.7″ 3-AAMG
DESIGNED HP— 680 DESIGNED SPEED—12 KNOTS

LI SUI (1910), **LI CHI** (1904)—EX-GERMAN—266 TONS

KUANG NING (1903), **KUANG CHING, CHIANG TUNG** (1897-1900)]
EX-RUSSIAN—150-200 TONS

TA TUNG, LI MIN—COMPLETED 1933—56 TONS

ONI 41-42 RESTRICTED

JAPANESE MERCHANT AUXILIARIES

THIS SECTION MAY BE USED IN CONNECTION WITH ONI 208-J JAPANESE MERCHANT SHIPS, ISSUED IN TASK BINDER SIZE

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943

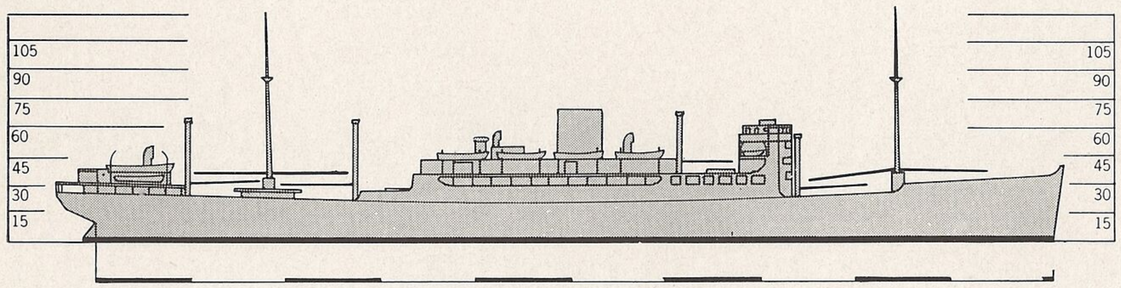
ONI 41-42 RESTRICTED

FOR FURTHER TREATMENT SEE ONI 208-J—
JAPANESE MERCHANT VESSELS

AH—HOSPITAL SHIPS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

NOTE—HULLS WHITE WITH BROAD GREEN STRIPE—RED CROSS ON GREEN STRIPE AND STACK—BRIDGE OR DECK AFT OF FUNNELS ILLUMINATED AT NIGHT



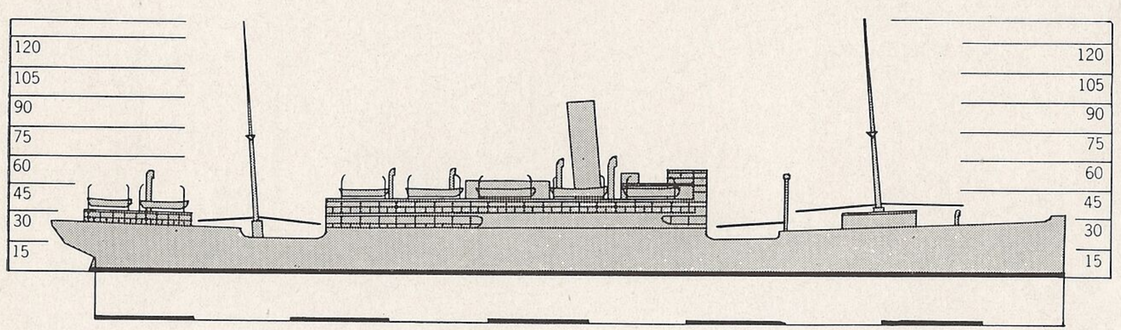
HIKAWA MARU—AH 1 ↑ 1930

DIMENSIONS— 512′ WL x 66′ x 30′ (LOADED) 16′6″ (LIGHT)

11,621 TONS (GROSS)

CRUISING SPEED—15 KNOTS CRUISING RADIUS—18,700 MILES

MAXIMUM SPEED—18 KNOTS



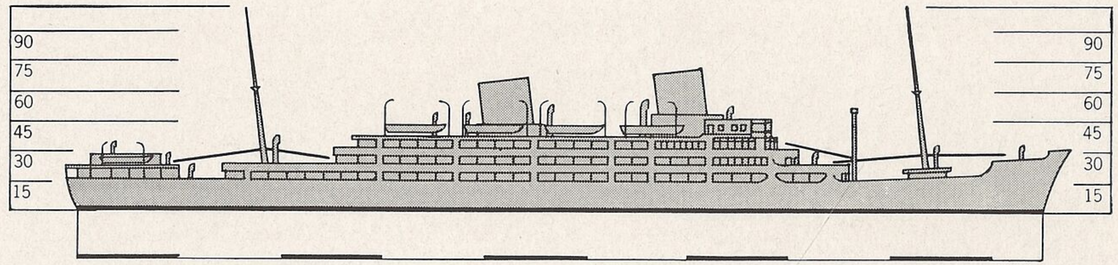
ASAHI MARU—AH 3 ↑ 1914

DIMENSIONS— 483′ WL x 59′ 6″ x 27′ (LOADED)

9,326 TONS (GROSS)

CRUISING SPEED—15 KNOTS

MAXIMUM SPEED—18 KNOTS FORMERLY A 2-STACKER



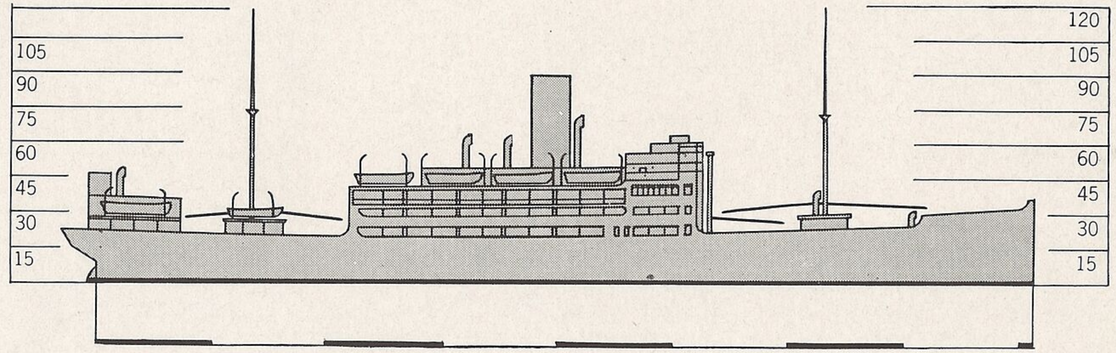
TAKASAGO MARU—AH 2 ↑ 1936

DIMENSIONS— 463′ WL x 61′ x 27′ (LOADED)

9,347 TONS (GROSS)

CRUISING SPEED—16 KNOTS

MAXIMUM SPEED—19 KNOTS



URAL MARU—AH 4 ↑ 1929

DIMENSIONS— 406′ WL x 55′ x 23′ (LOADED)

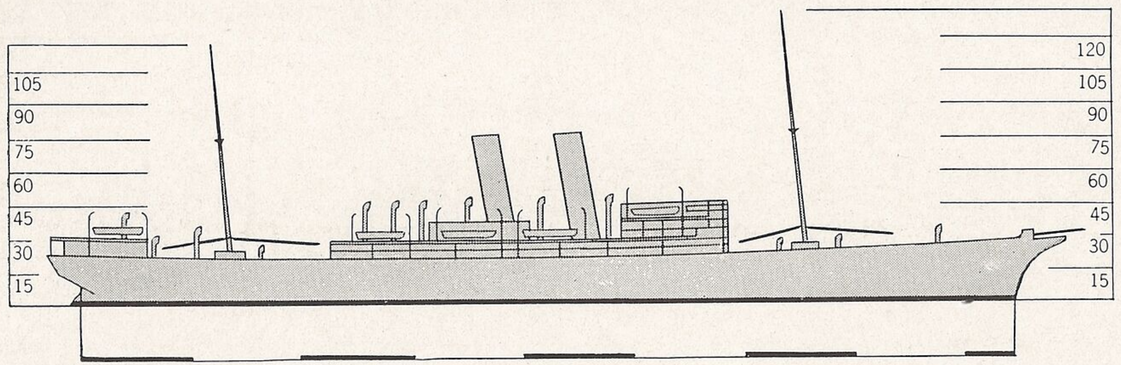
6,374 TONS (GROSS)

CRUISING SPEED—15½ KNOTS

MAXIMUM SPEED—18½ KNOTS

AH—HOSPITAL SHIPS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

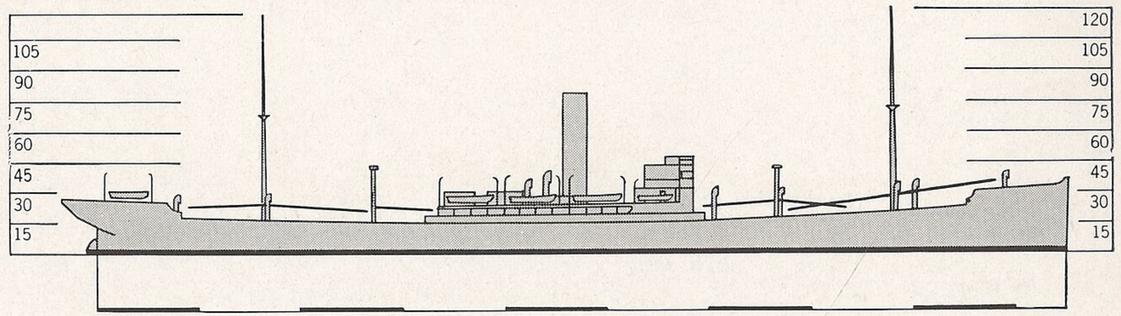


AMERICA MARU—AH 5 1898

DIMENSIONS— 423′ WL x 51′ x 27′ (LOADED)
6,070 TONS (GROSS)

CRUISING SPEED—14 KNOTS

MAXIMUM SPEED—15 KNOTS

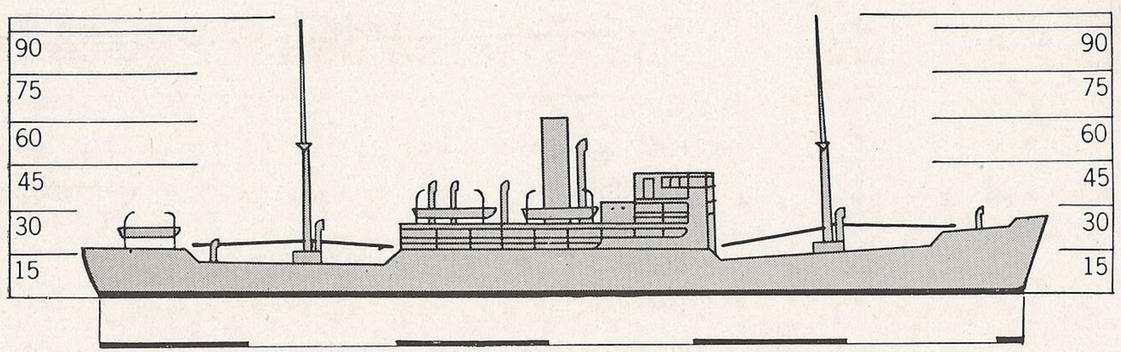


MANILA MARU—AH 6 **ARABIA MARU—AH 15** 1920

DIMENSIONS— 475′ WL x 61′ x 28′ (LOADED)
9,486 TONS (GROSS)

CRUISING SPEED—14 KNOTS CRUISING RADIUS—8,000 MILES

MAXIMUM SPEED—16 KNOTS

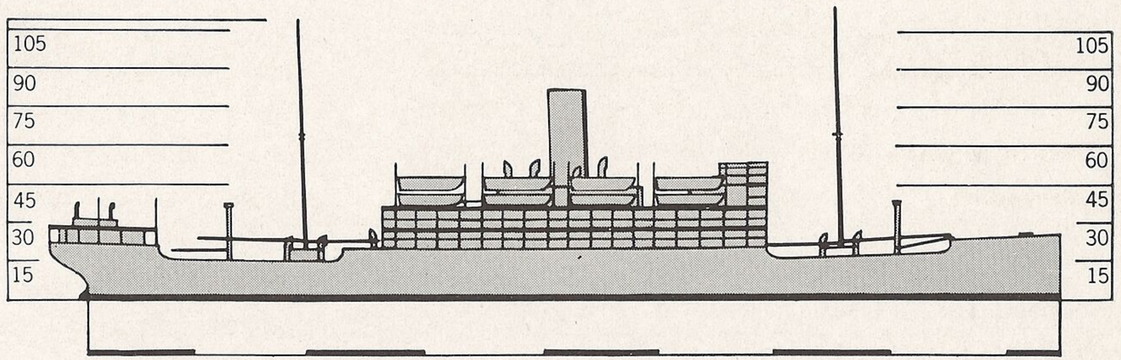


RYUKO MARU—AH 7 1938

DIMENSIONS— 298′ WL x 45′ x 21′ (LOADED)
2,962 TONS (GROSS)

CRUISING SPEED—11½ KNOTS CRUISING RADIUS—6,000 MILES

MAXIMUM SPEED—14 KNOTS SISTERSHIP—XPG-DAIDO MARU



BAIKAL MARU—AH 8 1921

DIMENSIONS— 400′ WL x 50′ x 23′ (LOADED)
5,266 TONS (GROSS)

CRUISING SPEED— 15 KNOTS

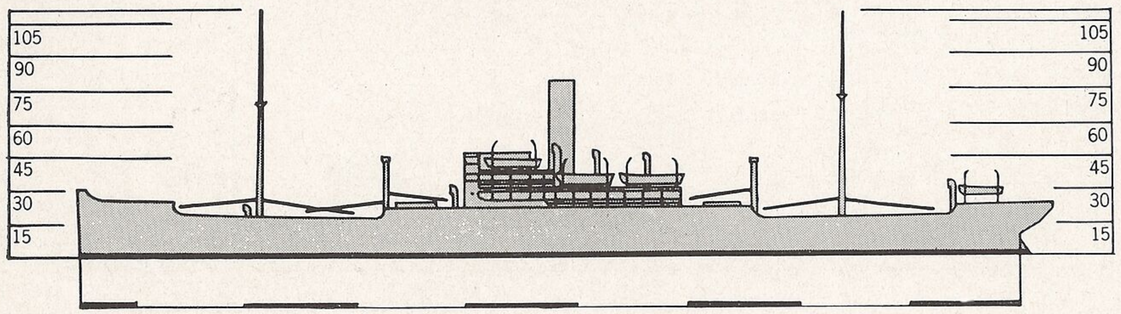
MAXIMUM SPEED—18 KNOTS

ONI 41-42 RESTRICTED

INTERNATIONAL AH MARKING IS ILLUSTRATED BELOW

AH—HOSPITAL SHIPS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JUNE, 1943

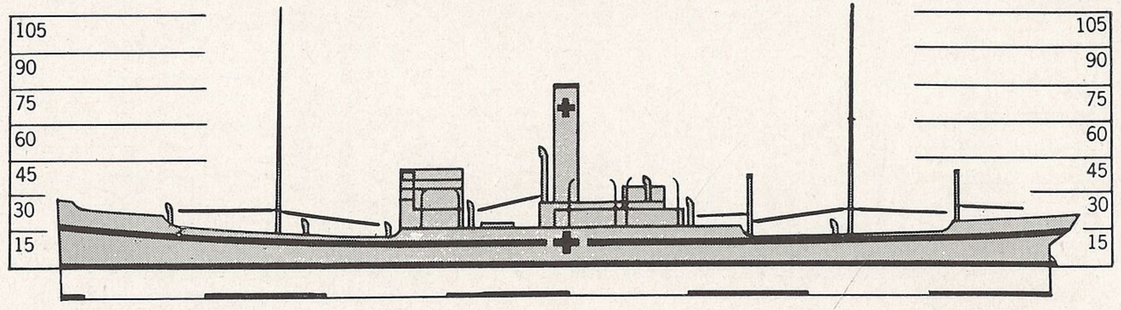


SEATTLE MARU—AH 9 1909

DIMENSIONS— 420′ (WL) x 49′ 6″ x 26′ (MAXIMUM)
5770 TONS (GROSS)

MAXIMUM SPEED—13.5 KNOTS

SISTERSHIP OPERATED AS **AP** WITH 1350 TROOP CAPACITY

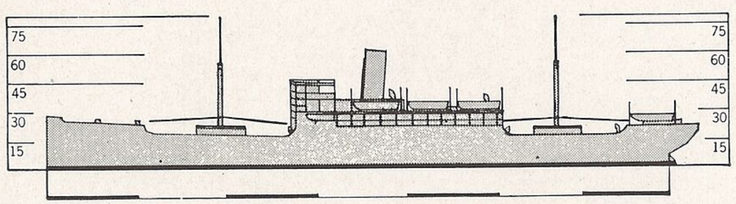


HOKUSIN MARU—AH 10 1920

DIMENSIONS— 407′ (WL) x 51′ x 26′ (MAXIMUM), 9′ (LIGHT)
5819 TONS (GROSS)

NOMINAL HP— 559

MAXIMUM SPEED—13.5 KNOTS

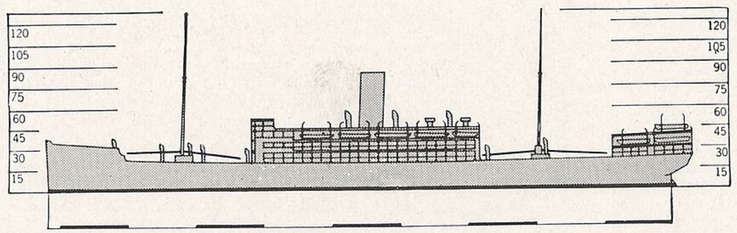


SIBERIA MARU—AH 11 1909

DIMENSIONS— 351′ (WL) x 44′ x 19′ (MAXIMUM), 12′ 6″ LIGHT
3461 TONS (GROSS)

NOMINAL HP— 643

MAXIMUM SPEED—14.5 KNOTS

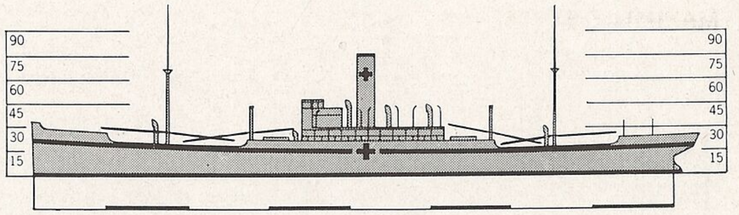


MIZUHO MARU—AH 13 1912

DIMENSIONS— 460′ (WL) x 58′ x 26′ (MAXIMUM)
8506 TONS (GROSS)

NOMINAL HP— 1134

MAXIMUM SPEED—17 KNOTS



CHICAGO MARU—AH 14 1910

DIMENSIONS— 405′ (WL) x 51′ x 25′ 6″ (MAXIMUM) 10′ (LIGHT)
5800 TONS (GROSS)

NOMINAL HP—

MAXIMUM SPEED—14.5 KNOTS

KOHOKU MARU—AH 12 1915

DIMENSIONS— 285′ (WL) x 43′ x 20′ (MAXIMUM)

DISPLACEMENT— 2578 TONS (GROSS)

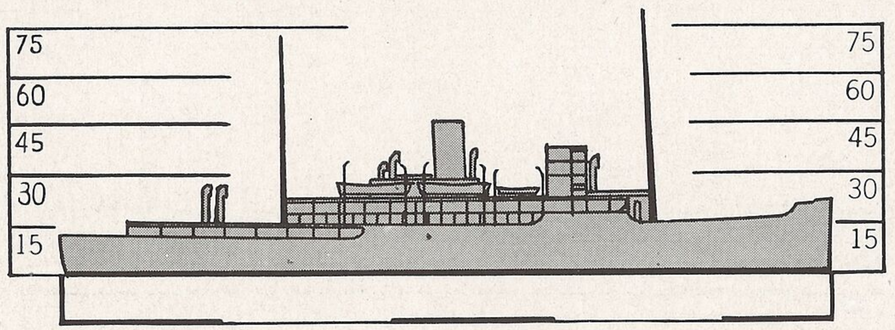
NOMINAL HP— 267

MAXIMUM SPEED—13 KNOTS APPEARANCE UNKNOWN

NOTES—

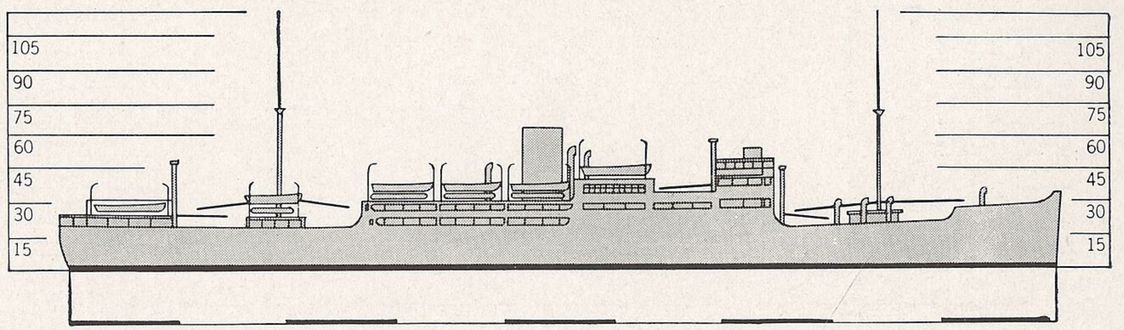
AH—HOSPITAL SHIPS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943



MURO MARU—AH 20—

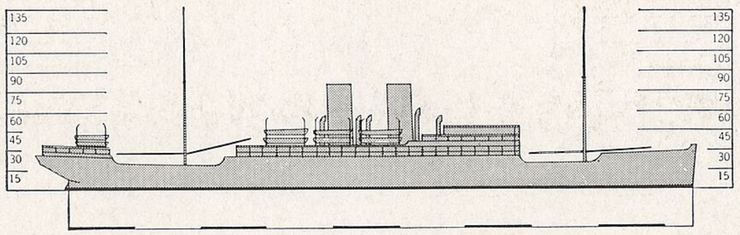
DIMENSIONS— 230′ WL x 37′ x 28′ (LOADED)
1,607 TONS (GROSS)
MACHINERY— DIESEL
MAXIMUM SPEED—15½ KNOTS



BUENOS AIRES MARU—AH 17 1929

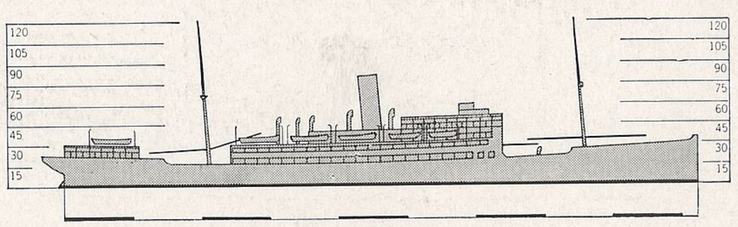
DIMENSIONS— 461′ WL x 62′ x 26′ (LOADED)
9,626 TONS (GROSS)
CRUISING SPEED—15 KNOTS
MAXIMUM SPEED—17 KNOTS

SISTERSHIP—XAS 2



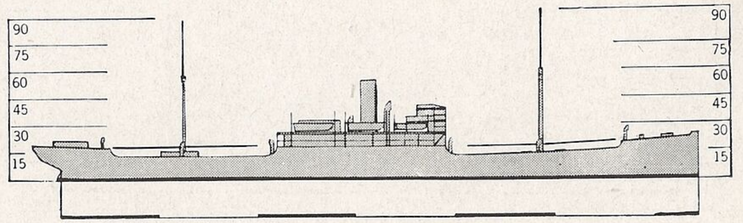
FUSO MARU—AH 16 1908

DIMENSIONS— 475′ WL x 57′6″ x 28′ (LOADED)
8,196 TONS (GROSS)
CRUISING SPEED—15 KNOTS
MAXIMUM SPEED—17 KNOTS



YOSHINO MARU—AH 18 1906

DIMENSIONS— 463′ WL x 57′ x 28′ (LOADED)
8,990 TONS (GROSS)
CRUISING SPEED—13 KNOTS
MAXIMUM SPEED—15 KNOTS



MIKASA MARU—AH 19

DIMENSIONS— 325′ WL x 46′ x 21′ (LOADED)
3,143 TONS (GROSS)
CRUISING SPEED—12½ KNOTS
MAXIMUM SPEED—15 KNOTS

NOTE—

ALMOST ALL OF THESE **AH** HAVE SISTERSHIPS IN OTHER AUXILIARY CAPACITY OR IN MERCHANT SERVICE. ANY VARIATIONS IN APPEARANCE, HOWEVER SLIGHT, IS OF IMPORTANCE, AND SHOULD BE NOTED.

ONI 41-42 RESTRICTED

SHIPS AND DESIGNATIONS BELOW SUPERSEDE CVS—
AV LISTING IN ONI 41-42—12/42

CVS—XCVS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JULY, 1943

CVS—1 NOTORO (COMPLETED AS AO ERIMO CLASS 1920—MODERNIZED 1934)

LENGTH— 470′ 9″ OA BEAM—58′ DRAFT—26′ 6″

DISPLACEMENT—14,050 TONS (STANDARD)

ARMAMENT	MAX. ELEV.	MAX. RANGE
2–4″.7	40°	19,000 YARDS
2–3″ AA	85°	9,000 FEET

1–CATAPULT—16 AIRCRAFT CARRIED

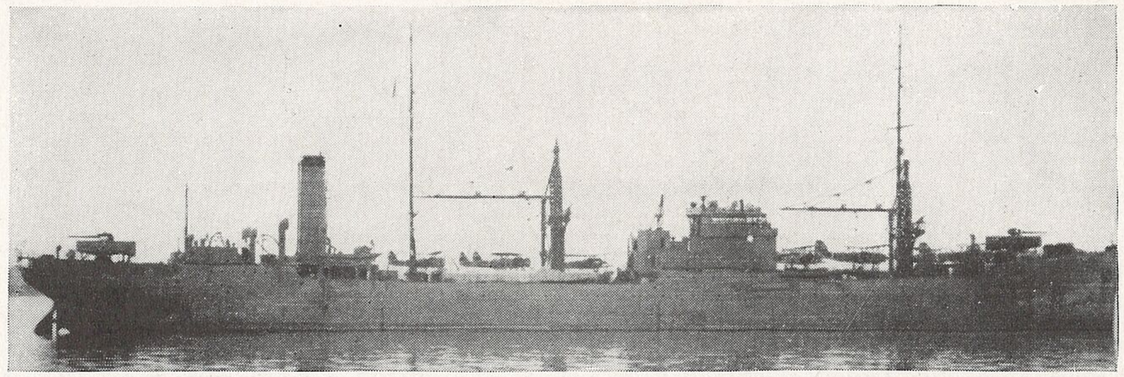
PROPULSION

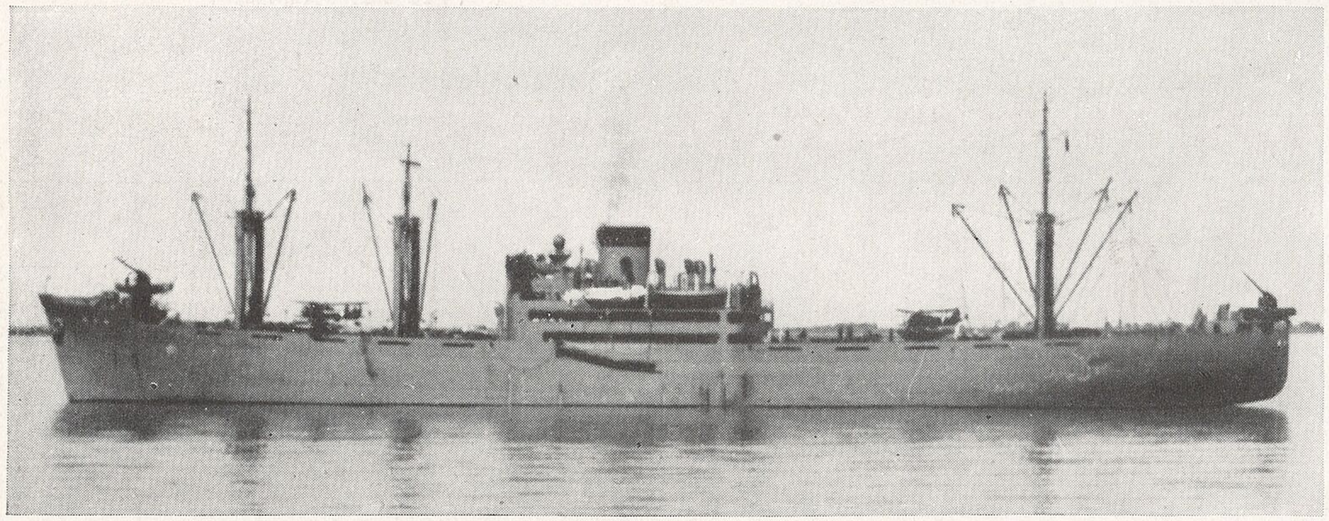
MACHINERY— TRIPLE EXPANSION RECIPROCATING

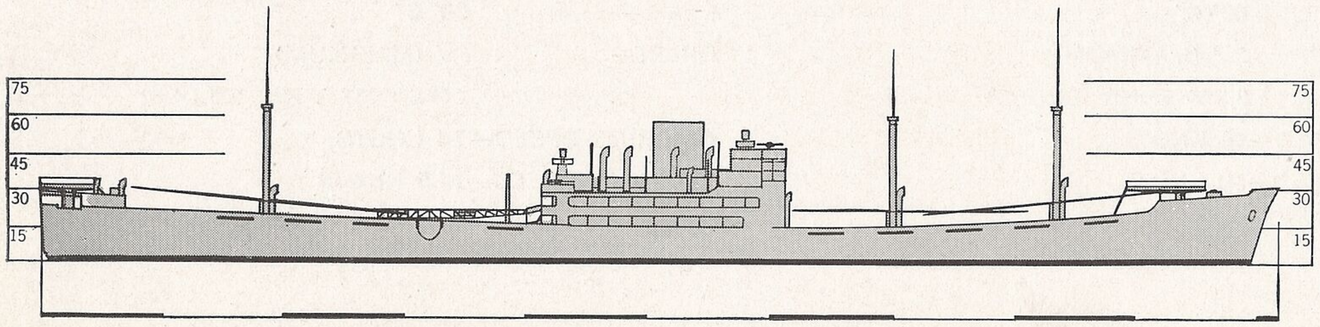
BOILERS— 4 MIYABARA FUEL— OIL, 1000 TONS

DESIGNED HP—5850 DESIGNED SPEED—12 KNOTS

ENDURANCE— 6100 MILES @ 12 KNOTS







KAMIKAWA MARU CLASS—XCVS-1, 3, 7, 9

LENGTH— 508′ OA; 479′ WL BEAM—62′ DRAFT—29′ (MAX.)
6853 TONS (GROSS)

ARMAMENT	MAX. ELEV.	MAX. RANGE
2-5″ AA	85°	18,000 FEET
?–AAMG		
2–SEARCHLIGHTS	1–CATAPULT	13 SEAPLANES CARRIED

PROPULSION

MACHINERY— DIESEL ENGINES FUEL— OIL, 2800 TONS

DESIGNED HP—7600 MAXIMUM SPEED—21 KNOTS

ENDURANCE— 10,000 @ 21 KNOTS —20,000 @ 15 KNOTS

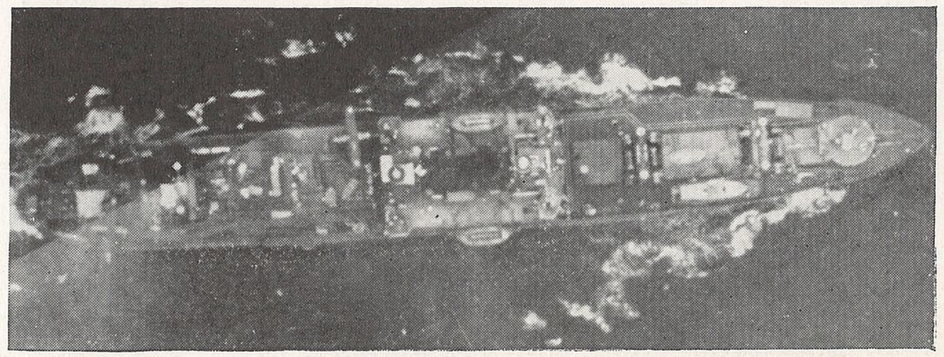
XCVS 1—KAMIKAWA MARU COMPLETED 1937

XCVS 3—KUNIKAWA MARU CONVERTED 1939-40

XCVS 7—KIMIKAWA MARU

XCVS 9—KIYOKAWA MARU

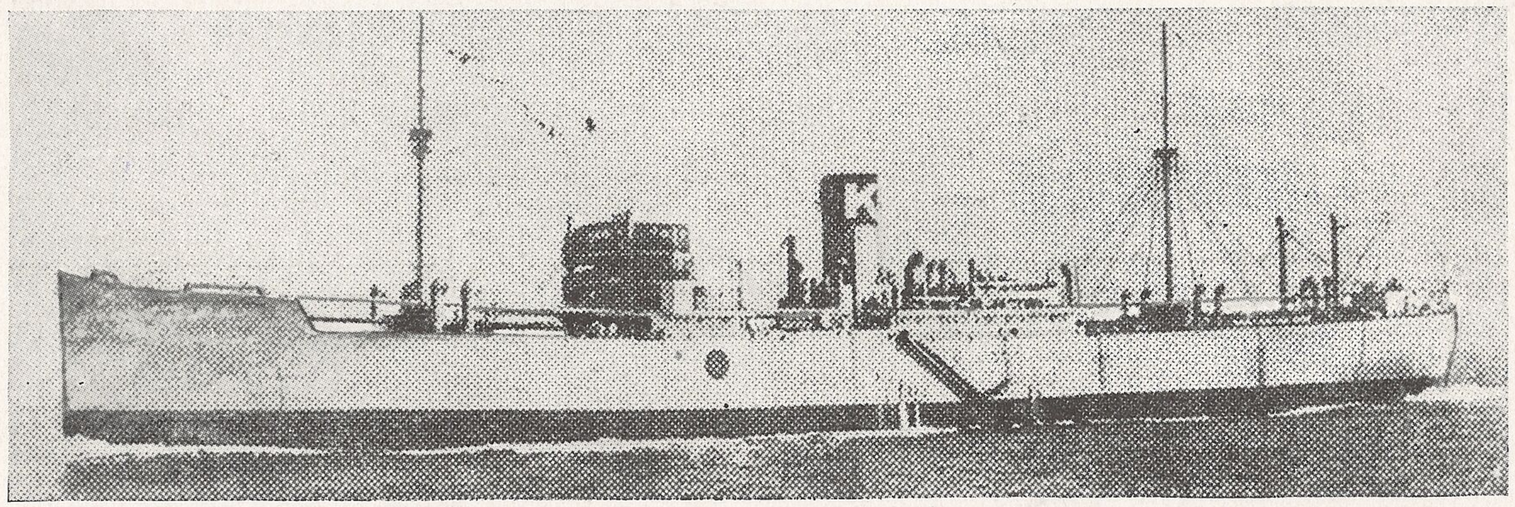
SISTERSHIP HIROKAWA MARU HAS PAIRED KINGPOSTS IMMEDIATELY ABAFT SUPERSTRUCTURE



XCVS—CONVERTED SEAPLANE CARRIERS

ONI 41-42

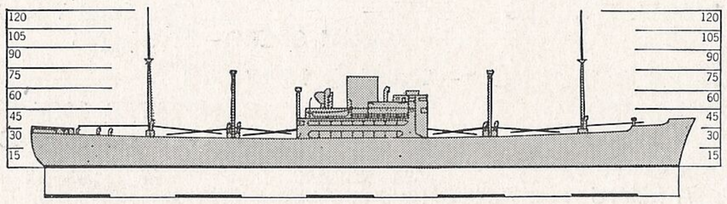
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JULY, 1943



FOR FURTHER TREATMENT OF THESE AND SISTER-SHIPS, SEE ONI 208-J; JAPANESE MERCHANT SHIPS; ALL CARRY 13 AIRCRAFT, ARE ARMED WITH 2–5″ AA.

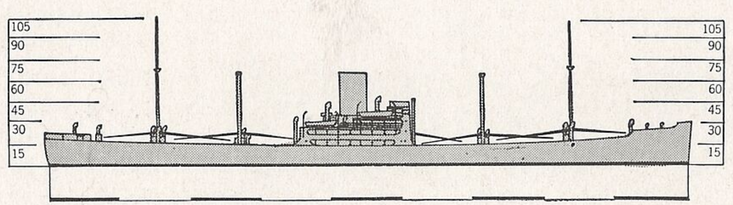
← **YASUKAWA MARU—XCVS 2** 1930

LENGTH— 455′ WL
BEAM— 62′
DRAFT— 26′ 6″ (MAXIMUM)
6,710 TONS (GROSS)
CRUISING SPEED—13 KNOTS
MAXIMUM SPEED—16 KNOTS



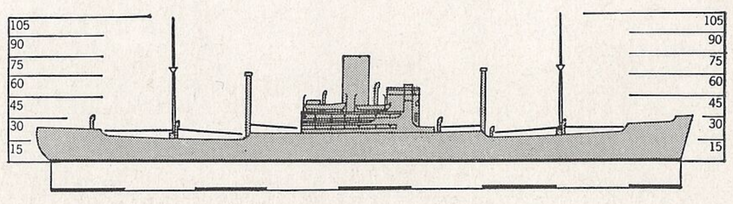
SANUKI MARU CLASS—XCVS 4, 8

LENGTH— 479′ WL
BEAM— 62′
DRAFT— 28′ (MAXIMUM)
7,150 TONS (GROSS)
ARMAMENT— 4–5″ (?)
CRUISING SPEED—16 KNOTS
MAXIMUM SPEED—19 KNOTS
XCVS—4 SANUKI MARU COMPLETED 1939
XCVS—8 SAGARA MARU COMPLETED 1940



SANYO MARU—XCVS 5 1930

LENGTH— 446′ WL
BEAM— 60′ 6″
DRAFT— 28′ (MAXIMUM)
8,360 TONS (GROSS)
DESIGNED SPEED—16 KNOTS
MAXIMUM SPEED—18 KNOTS



OKITSU MARU—XCVS 6 1939

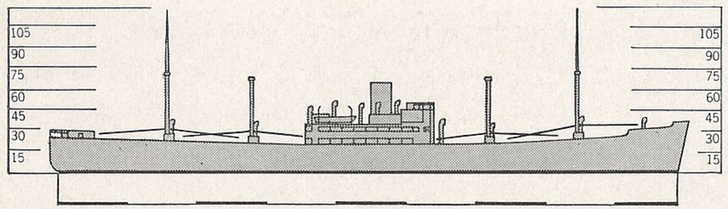
LENGTH— 461′ OA
BEAM— 58′ 6″
DRAFT— 26′ (MAXIMUM)
6486–6667 TONS (GROSS)
CRUISING SPEED—14 KNOTS
MAXIMUM SPEED—17.5 KNOTS

ONI 41-42 RESTRICTED

FOR FURTHER TREATMENT OF THESE VESSELS AND THEIR SISTERSHIPS SEE ONI 208-J—JAPANESE MERCHANT VESSELS.

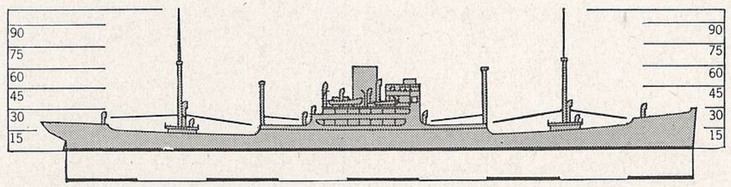
APV—AIRCRAFT TENDERS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JULY, 1943



GOSHU MARU—APV 1 COMPLETED 1938

LENGTH— 443′ WL
BEAM— 60′
DRAFT— 28′ (MAXIMUM)
8,592 TONS (GROSS)
ARMAMENT— MAY MOUNT UP TO 6–5″
CRUISING SPEED—15 KNOTS
MAXIMUM SPEED—17 KNOTS

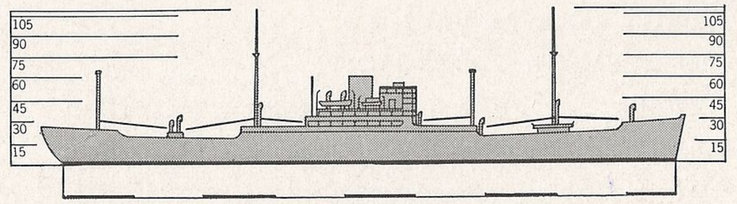


FUJIKAWA MARU CLASS—APV 2, 5

LENGTH— 436′ WL
BEAM— 59′
DRAFT— 26′ (MAXIMUM)
6,850 TONS (GROSS)
ARMAMENT— (?) 4–5″ AA
CRUISING SPEED—13.5 KNOTS
MAXIMUM SPEED—16 KNOTS

	COMPLETED
APV 2—FUJIKAWA (HUZIKAWA) MARU	1938
APV 5—MOGAMIGAWA MARU	1934

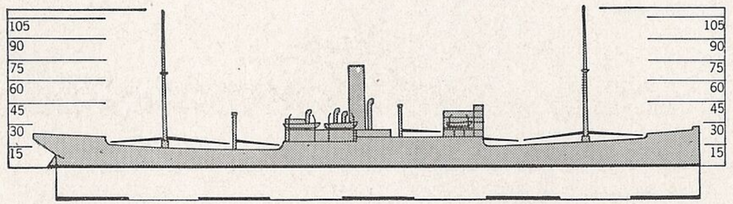
SISTERSHIPS TO XCM—TENYO MARU



KAMOGAWA MARU CLASS—APV 3, 4

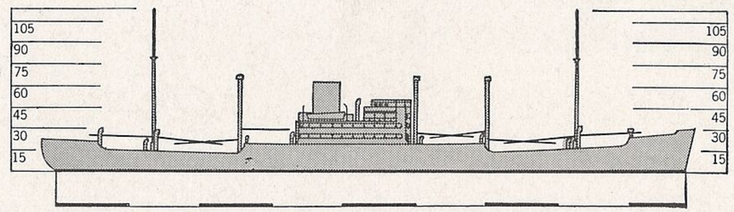
LENGTH— 456′ OA
BEAM— 58′
DRAFT— 26′ (MAXIMUM)
6,440 TONS (GROSS)
CRUISING SPEED—14 KNOTS
MAXIMUM SPEED—17 KNOTS

	COMPLETED
APV 3—KAMOGAWA MARU	1938
APV 4—KEIYO MARU	1937



LYONS MARU—APV 6 1920

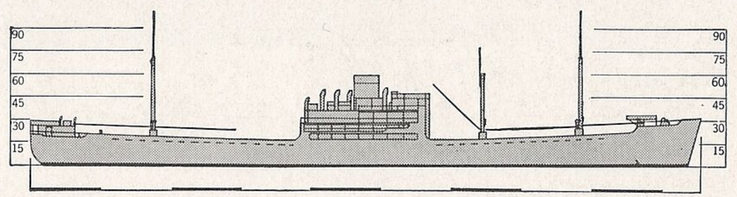
LENGTH— 445′ WL
BEAM— 58′
DRAFT— 27′ (MAXIMUM)
7,000 TONS (GROSS)
CRUISING SPEED—12 KNOTS
MAXIMUM SPEED—14.5 KNOTS



NARUTO MARU—APV 7 1934

LENGTH— 470′ OA
BEAM— 62′
DRAFT— 27′5″ (MAXIMUM)
7,150 TONS (GROSS)
CRUISING SPEED—15 KNOTS
MAXIMUM SPEED—19 KNOTS

SISTERSHIP TO XCL–1—NOSHIRO MARU



KINUGASA MARU CLASS—NO LONGER LISTED

LENGTH— 453′ WL
BEAM— 61′
DRAFT— 28′ (LOADED)
8,500 TONS (GROSS)
ARMAMENT— 2–5″ AA—13 (VO) AIRCRAFT
CRUISING RADIUS—34,000 MILES
CRUISING SPEED— 16.5 KNOTS
MAXIMUM SPEED— 19 KNOTS

KINUGASA MARU—AV 3	1934-36
KIYOSUMI MARU—AV 4	

ARC—CABLE LAYING SHIPS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

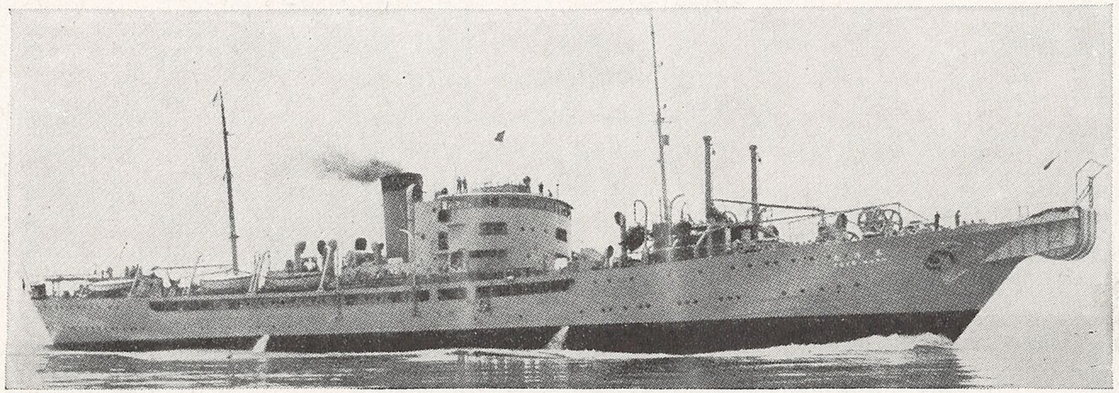
HASHIMA CLASS—ARC 1, 2

DISPLACEMENT—2,000 TONS (?)

HASHIMA— ARC 1 (CONVERTED 1940)
TSURUSHIMA— ARC 2 (CONVERTED 1940)

TATEISHI CLASS—ARC 3, 4

TATEISHI—ARC 3 (COMPLETED 1942)
ODATE— ARC 4 (COMPLETED 1942)

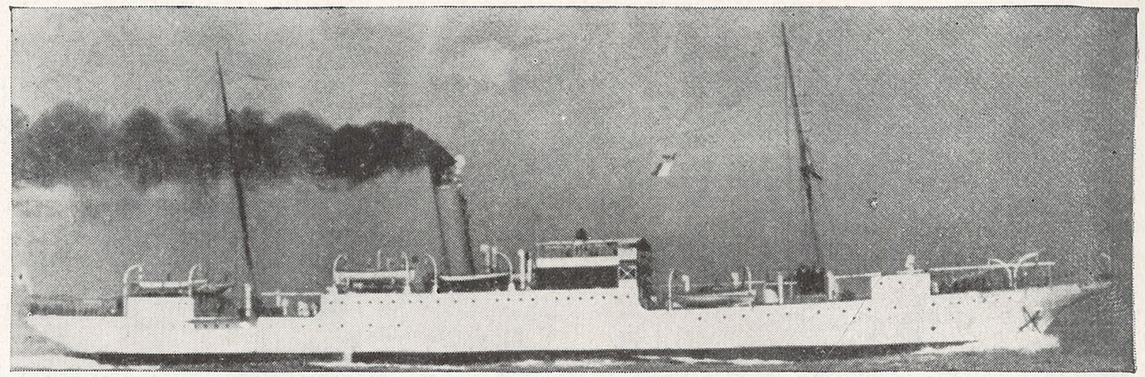


TOYO MARU—ARC 7 1937

DIMENSIONS— 335′ WL x 46′ x 20′6″ (LOADED)
DISPLACEMENT— 3,719 TONS (GROSS)
CRUISING SPEED—12½ KNOTS
MAXIMUM SPEED— 15 KNOTS NOMINAL HP—500

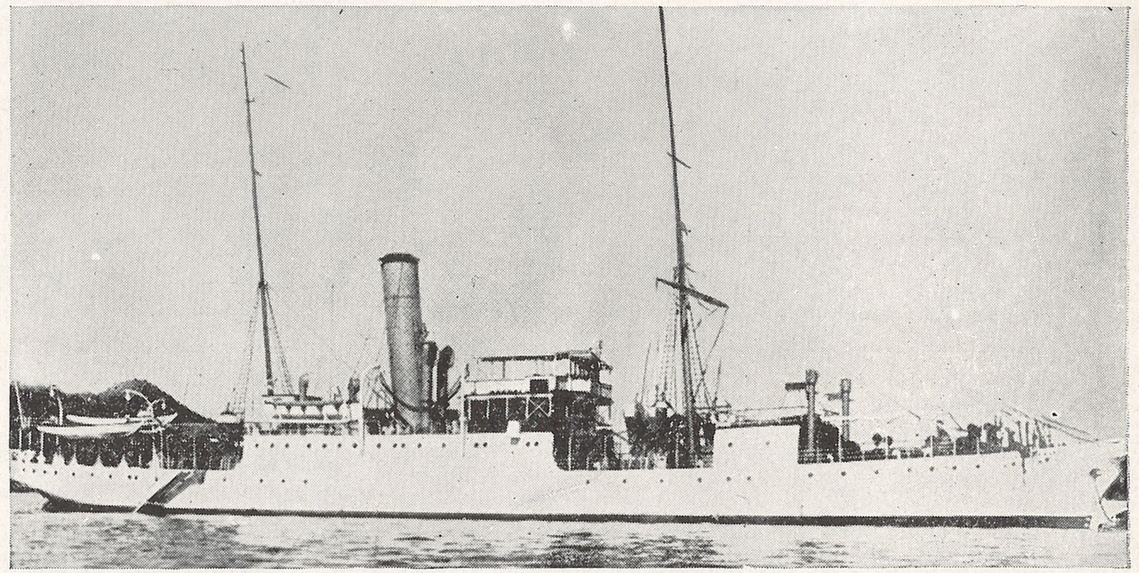
THESE SHIPS MAY ALSO BE EMPLOYED AS
SUBMARINE TENDERS, MINE LAYERS OR SWEEPERS
NET LAYERS, BOOM TENDERS, ESCORT VESSELS

FOR FURTHER TREATMENT SEE
ONI 208-J JAPANESE MERCHANT VESSELS



NANYO MARU—ARC 5 1923

DIMENSIONS— 344′6″ WL x 44′ x 21′ (LOADED)
DISPLACEMENT— 3,605 TONS (GROSS)
CRUISING SPEED—10 KNOTS
MAXIMUM SPEED—12 KNOTS NOMINAL HP—276



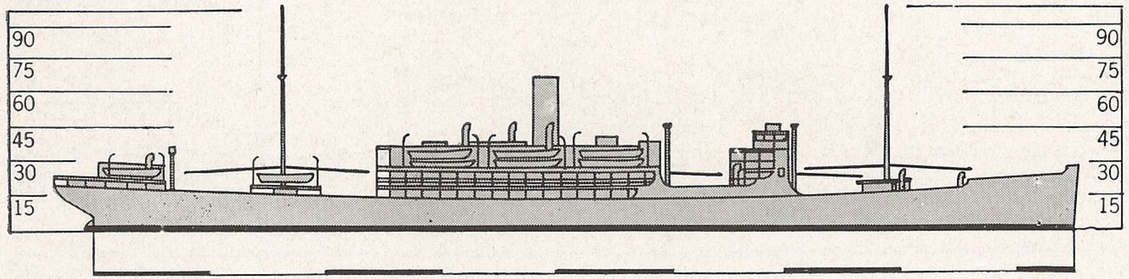
OGASAWARA MARU—ARC 6 1906

DIMENSIONS— 243′2″ WL x 34′ x 16′6″ (LOADED)
DISPLACEMENT— 1,392 TONS (GROSS)
CRUISING SPEED—10 KNOTS NOMINAL HP—176
MAXIMUM SPEED—12 KNOTS FUEL —COAL

ONI 41-42

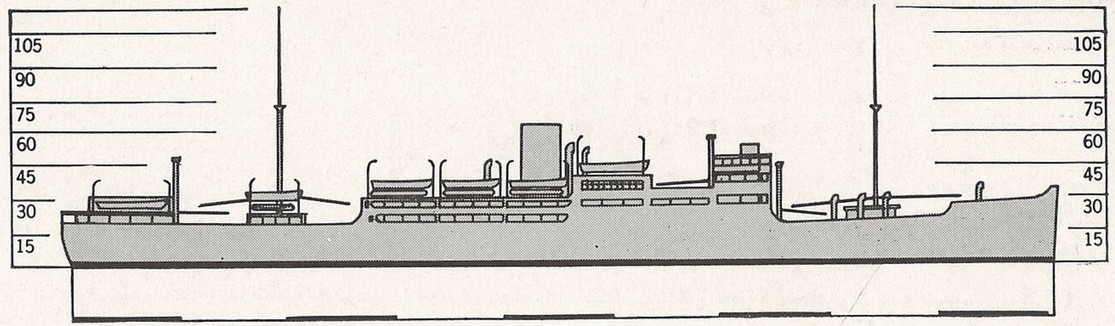
XAS—SUBMARINE TENDERS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JULY, 1943



MANZYU MARU—XAS 1 1926

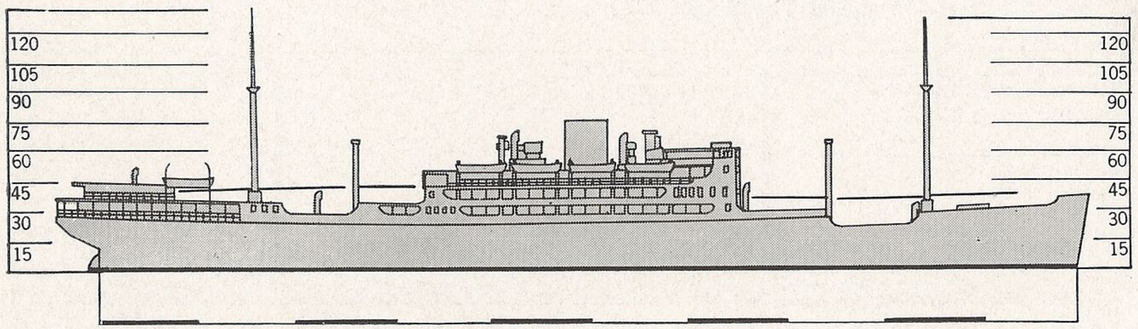
DIMENSIONS— 430′ WL, 449′ OA 56′ 25′ (LOADED)
7,267 TONS (GROSS)
CRUISING SPEED— 14 KNOTS
MAXIMUM SPEED—16.5 KNOTS



RIO DE JANEIRO MARU—XAS 2 1930

DIMENSIONS— 461′ WL 62′ 26′ (LOADED)
9,626 TONS (GROSS)
ARMAMENT— (?)-6″
CRUISING SPEED— 15 KNOTS
MAXIMUM SPEED—17 KNOTS

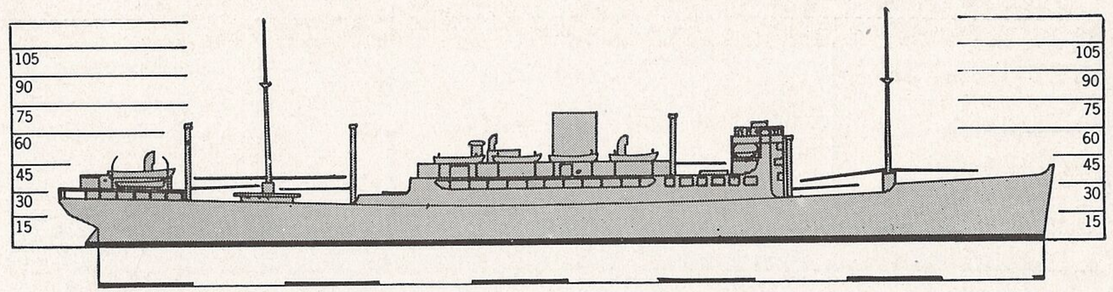
SISTERSHIP—AH-BUENOS AIRES MARU



YASUKUNI MARU—XAS 3 1930

DIMENSIONS— 507′ WL, 531′ OA 64′ 29′ (LOADED) 15′ (LIGHT)
11,930 TONS (GROSS)
ARMAMENT— (?)-5″ AA
CRUISING SPEED— 16 KNOTS
MAXIMUM SPEED—18 KNOTS

EIGHT WATERTIGHT BULKHEADS EXTEND TO UPPER DECK



HIE MARU CLASS—XAS 4, 5 1930

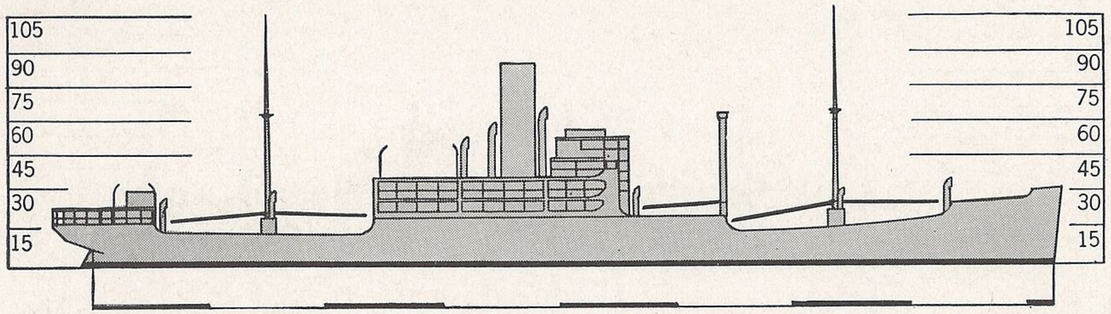
DIMENSIONS— 510′ WL, 535′ OA 66′ 30′ (LOADED) 16′ 6″ (LIGHT)
11,620 TONS (GROSS)
ARMAMENT— (?)-6″
CRUISING SPEED— 15 KNOTS
MAXIMUM SPEED—18 KNOTS @ 104 R.P.M.

XAS 4—HIE MARU XAS 5—HEIAN MARU
SISTERSHIP—AH-HIKAWA MARU

NINE WATERTIGHT BULKHEADS EXTEND TO UPPER DECK.

XAS—SUBMARINE TENDERS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JULY, 1943



NAGOYA MARU—XAS 6 1932

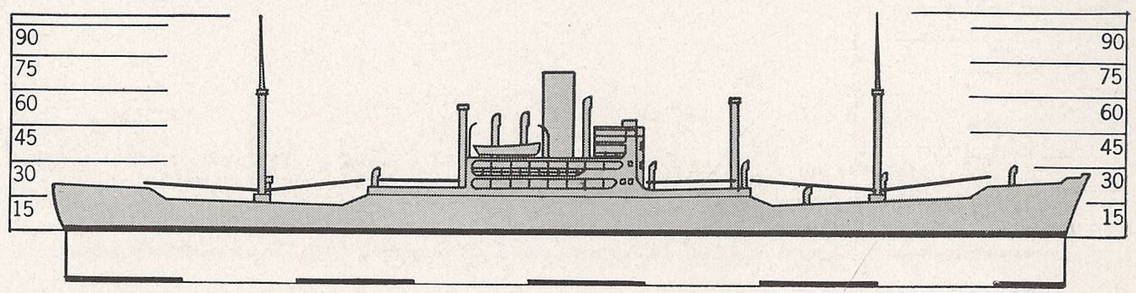
DIMENSIONS— 407′ WL x 56′ x 26′ (LOADED) 9′ (LIGHT)

6,072 TONS (GROSS)

CRUISING SPEED— 12 KNOTS @ 12,000 MILES RADIUS

MAXIMUM SPEED—13.5 KNOTS

FOR FURTHER TREATMENT OF THESE AND SISTERSHIPS SEE ONI 208-J—JAPANESE MERCHANT VESSELS



ARATAMA MARU—XAS 7 1938

DIMENSIONS— 446′ 6″ WL x 59′ x 27′ (LOADED) 11′ (LIGHT)

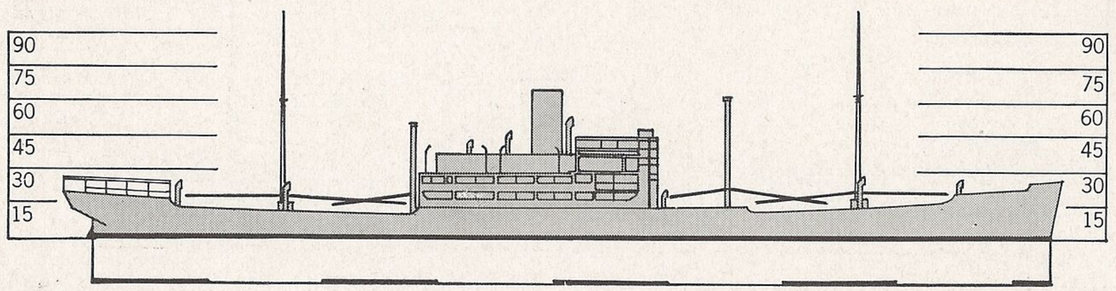
6,780 TONS (GROSS)

CRUISING SPEED— 13 KNOTS @ 110 R.P.M. @ 25,000 MILE RADIUS

MAXIMUM SPEED— 16 KNOTS

URAGAMI MARU—XAS 8 1941

4,250 TONS (GROSS)



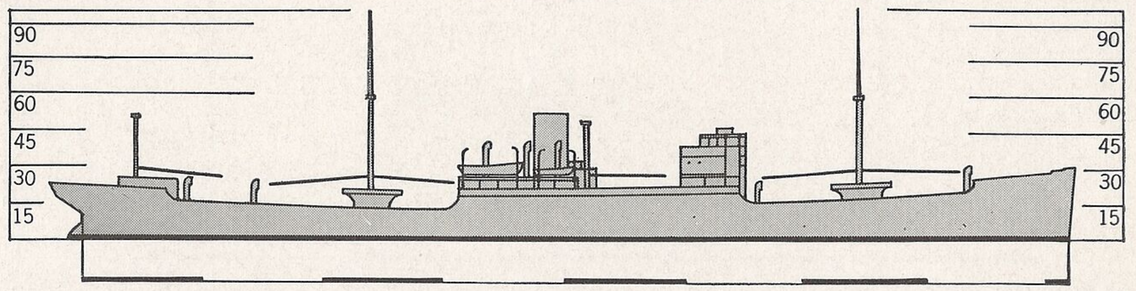
NISSO MARU—XAS 9 1938

DIMENSIONS— 420′ WL x 57′ x 27′ (LOADED) 10′ 6″ (LIGHT)

6,510 TONS (GROSS)

CRUISING SPEED— 14 KNOTS @ 11,700 MILES RADIUS

MAXIMUM SPEED—17 KNOTS



SOYO MARU—XAS 10 1930

DIMENSIONS— 415′ WL x 56′ x 25′ (LOADED)

6,081 TONS (GROSS)

CRUISING SPEED— 12 KNOTS

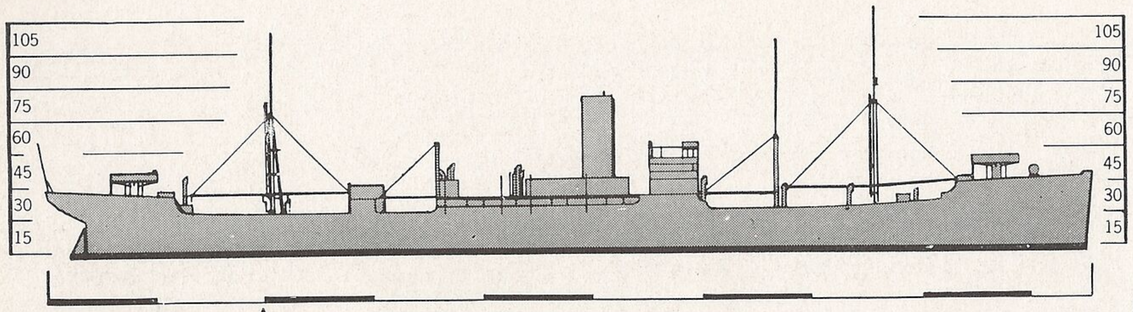
MAXIMUM SPEED—15 KNOTS

THIS SHIP WAS PREVIOUSLY LISTED AS AN AVP

ONI 41-42 RESTRICTED

AF—SUPPLY SHIPS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JUNE, 1943

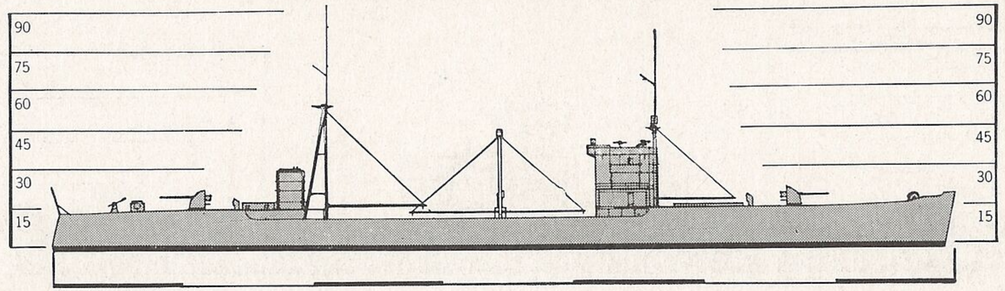


MAMIYA—AF 1 1929

LENGTH—483′ OA
BEAM— 61′
DRAFT— 27′8″ (MEAN)
DISPLACEMENT—15,820 TONS (STANDARD)—17,500 TONS (NORMAL)

ARMAMENT	MAX. ELEV.	MAX. RANGE (HOR.)	MAX. RANGE (VER.)
2–5″.5 (50)		20,000 YD.	
2–3″ (40) AA	85°	9,000 YD.	20,000 FT.

PROPULSION— MACHINERY— TRIPLE EXPANSION ENGINES
BOILERS— EIGHT KAMPON DESIGNED HP—10,000
MAXIMUM SPEED—14 KTS PROPELLERS— 2



KASHINO CLASS—AF 2, 3

KASHINO—AF 2 (1940)
IRAKO— AF 3 (1941)

LENGTH—400′ OA
BEAM—
DRAFT— 16′ —23′
DISPLACEMENT—7,000 TONS (E)

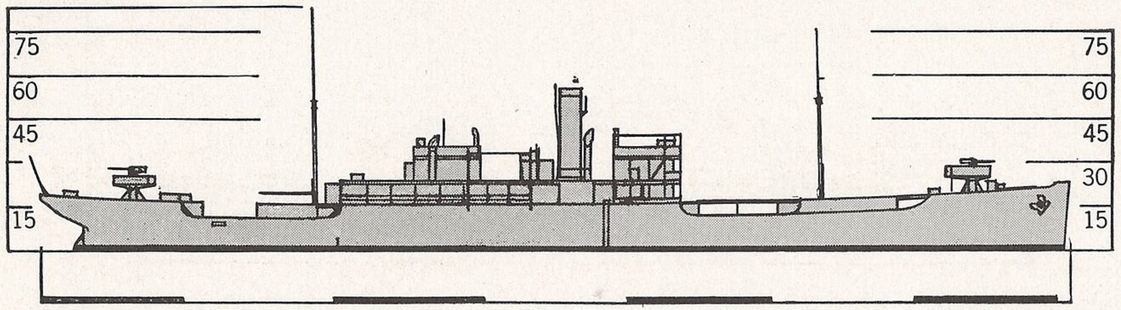
ARMAMENT— 2–3″ AA 2–AAMG
SEARCHLIGHTS—3 RANGE FINDERS—3

THESE SHIPS MAY APPEAR WITHOUT STACK, BEING DIESEL DRIVEN

AF—SUPPLY SHIPS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION —JUNE, 1943

ONI 41-42



MUROTO CLASS—AF 4, 5 ↑

LENGTH—345′ OA

BEAM— 50′

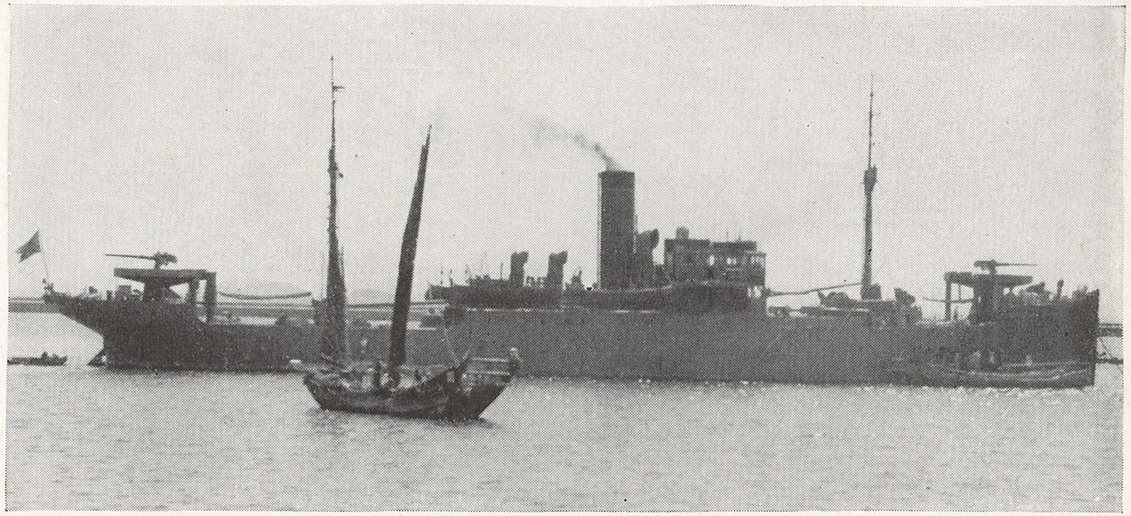
DRAFT— 23′11″ (MEAN)

DISPLACEMENT—8,215 TONS (STANDARD) 8,751 TONS (NORMAL)

ARMAMENT—	MAX. ELEV.	MAX. RANGE (HOR.)	MAX. RANGE (VER.)
2–4″.7 (45)	45°	19,000 YDS.	
2–3″ AA	85°	9,000 YDS.	20,000 FT.

PROPULSION FUEL— COAL, 877 TONS
DESIGNED HP—2,640 MAXIMUM SPEED—12.5 KNOTS

AF 4—NOSHIMA (1919)
AF 5—MUROTO (1918) EX-COLLIERS

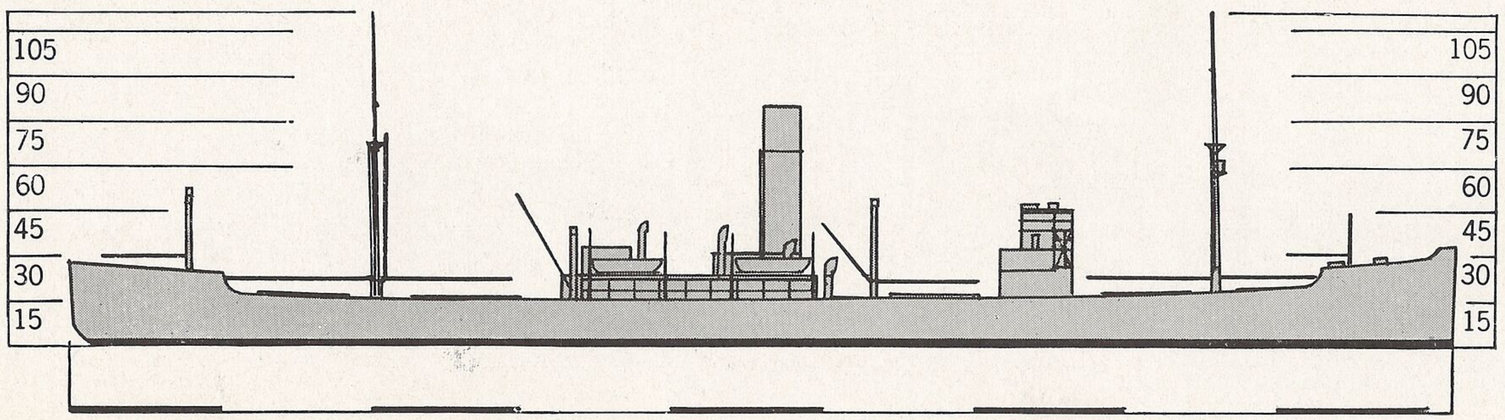


***SHURI MARU** (SYURI MARU)—**XAF 2**—NO LONGER LISTED ↑ **1928**

DIMENSIONS—260′ WL x 39′ x 20′ (LOADED)

DISPLACEMENT—1,857 TONS (GROSS)

CRUISING SPEED— 10 KNOTS
MAXIMUM SPEED—13 KNOTS



← ***KOSEI MARU—XAF 1** **1920**

DIMENSIONS—450′2″ WL x 58′3″ x 29′ (LOADED)

DISPLACEMENT—8,223 TONS (GROSS)

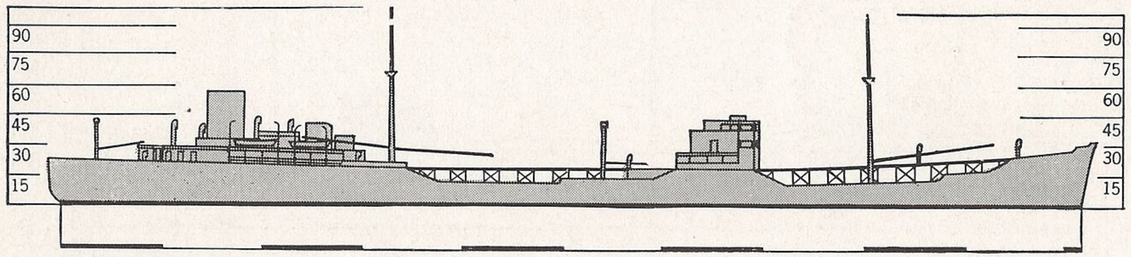
CRUISING SPEED— 11 KNOTS
MAXIMUM SPEED—13 KNOTS

*FOR COMPLETE TREATMENT SEE ONI 208-J JAPANESE MERCHANT VESSELS

ONI 41-42 RESTRICTED

XAO—CONVERTED OILERS

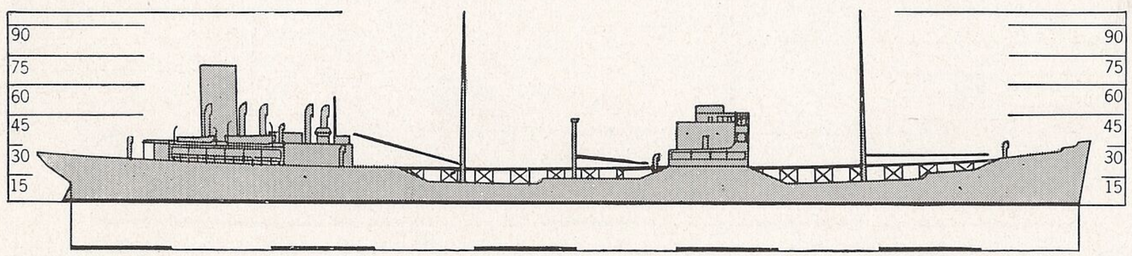
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—AUGUST, 1943



KYOKUTO MARU—XAO 1

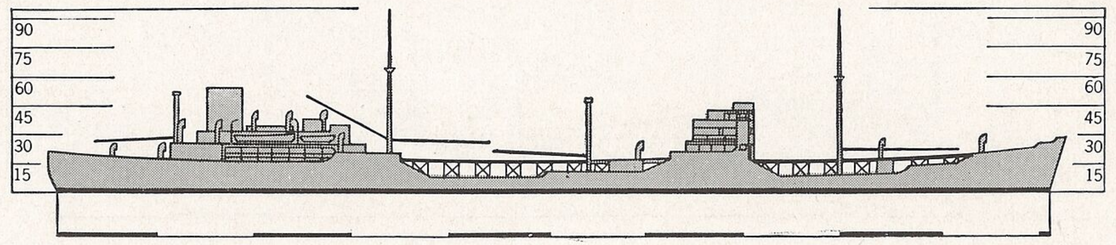
DIMENSIONS— 500′ (WL) x 65′ x 29′6″ (MAXIMUM), 11′ (LIGHT)
10,052 TONS (GROSS)
CAPACITY— 93,000 BARRELS
BRAKE HP— 8,000
MAXIMUM SPEED—19 KNOTS
SISTERSHIP **TOA MARU** FORMERLY ON NAVY LIST

THIS LIST SUPERSEDES DESIGN CLASS LISTINGS. SHIPS NOT HEREIN NOTED ARE ASSUMED TO HAVE RETURNED TO MERCHANT STATUS. FOR FURTHER DATA, SEE ONI-208-J.



FUJISAN (HUZISAN) MARU—XAO 6 1931

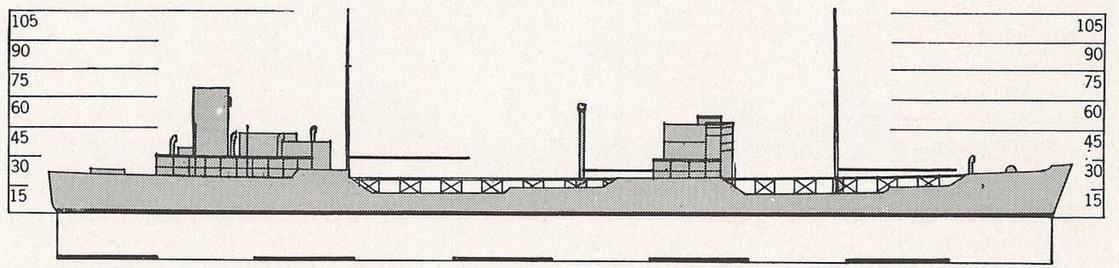
DIMENSIONS— 512′ (OA) x 65′ x 28′ (MAXIMUM), 10′ (LIGHT)
9525 TONS (GROSS)
ARMAMENT— 2–5″ (?)
CAPACITY— 93,000 BARRELS
NOMINAL HP— 1857
MAXIMUM SPEED—19 KNOTS



GENYO MARU CLASS—XAO 2, 3, 4, 5

DIMENSIONS— 503′ (WL) x 65′ x 30′ (MAXIMUM), 11′ (LIGHT)
10,020 TONS (GROSS)
CAPACITY— 93,000 BARRELS
NOMINAL HP— 2250
MAXIMUM SPEED—19–20 KNOTS

		COMPLETED
EX-GENYO MARU—	XAO 2—	1937
EX-TOEI MARU—	XAO 3—	1938
EX-KOKUYO MARU—	XAO 4—	1938
EX-KENYO MARU—	XAO 5—	1939

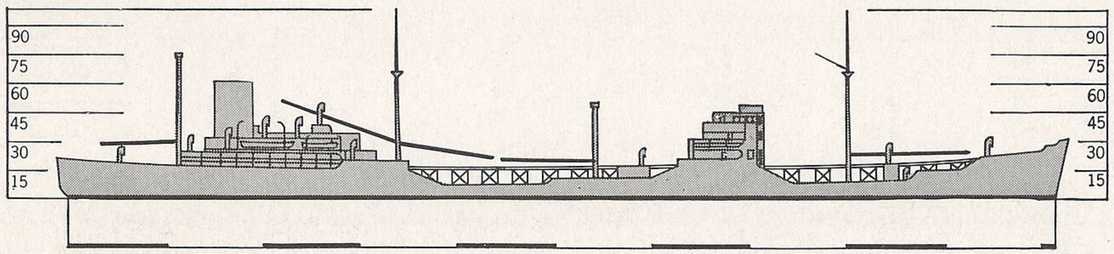


SINKOKU MARU—XAO 7 1940

DIMENSIONS— 500′ (WL) x 65′ x 29′6″ (MAXIMUM), 11′ (LIGHT)
10,020 TONS (GROSS)
CAPACITY— 93,000 BARRELS
NOMINAL HP— ?
MAXIMUM SPEED—19 KNOTS

XAO—CONVERTED OILERS

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JULY, 1943



NIPPON MARU—XAO 8 1936

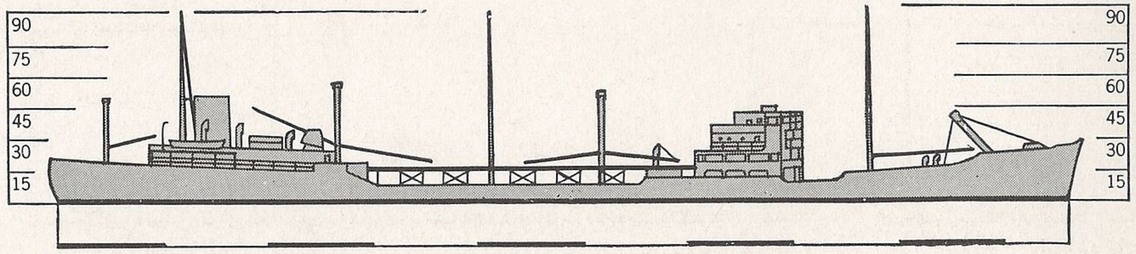
DIMENSIONS— 524′ (OA) x 65′ x 29′6″ (MAXIMUM), 11′ (LIGHT)

9,974 TONS (GROSS)

CAPACITY— 103,000 BARRELS

NOMINAL HP— 2115

MAXIMUM SPEED—19 KNOTS



HOYO MARU CLASS—XAO 9, 10

DIMENSIONS— 494′ (OA) x 61′ x 30′ (MAXIMUM), 10′ (LIGHT)

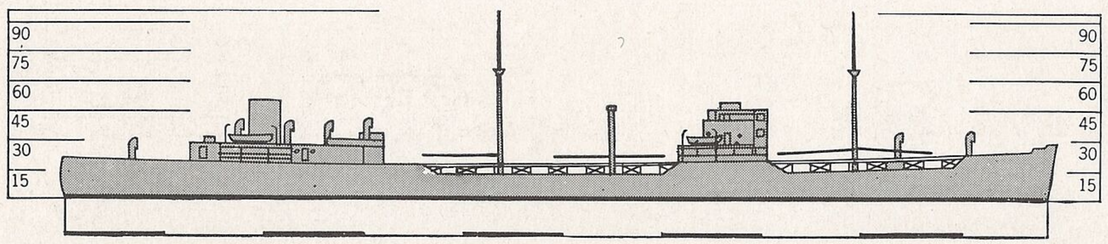
8,692 TONS (GROSS)

CAPACITY— 95,000 BARRELS

NOMINAL HP— 1163

MAXIMUM SPEED—18 KNOTS

	COMPLETED
HOYO MARU— XAO 9	1936
KAIZYO MARU— XAO 10	1937



TEIYO MARU—XAO 11 1931

DIMENSIONS— 511′ (OA) x 64′ x 31′ (MAXIMUM), 11′6″ (LIGHT)

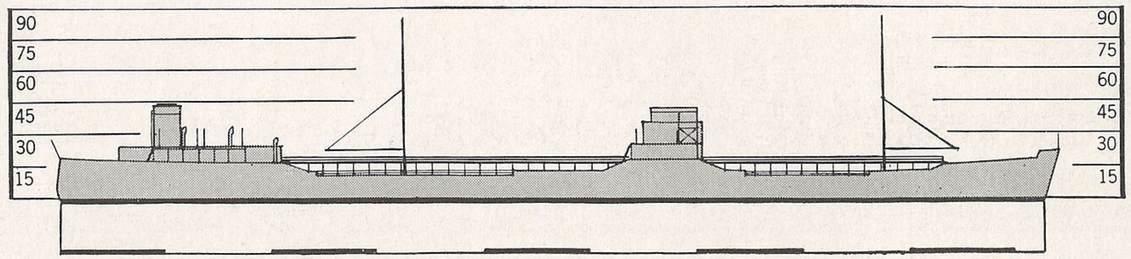
9,850 TONS (GROSS)

CAPACITY— 92,000 BARRELS

NOMINAL HP— 2340

MAXIMUM SPEED— 18 KNOTS

SAN PEDRO, SAN DIEGO, TONAN NOS. 2 & 3, AKEBONO, NISSHIN NO. 2, AND OMUROSAN MARUS, FORMERLY LISTED, NO LONGER CARRIED AS NAVAL AUXILIARIES.



EX-GENOTA—(EX-DUTCH) XAO 12 1935

DIMENSIONS— 463′ WL x 59′3″ x 33′9″ (MAXIMUM)

7,983 TONS (GROSS)

CAPACITY— ?

NOMINAL HP— 502

MAXIMUM SPEED—11.5 KNOTS

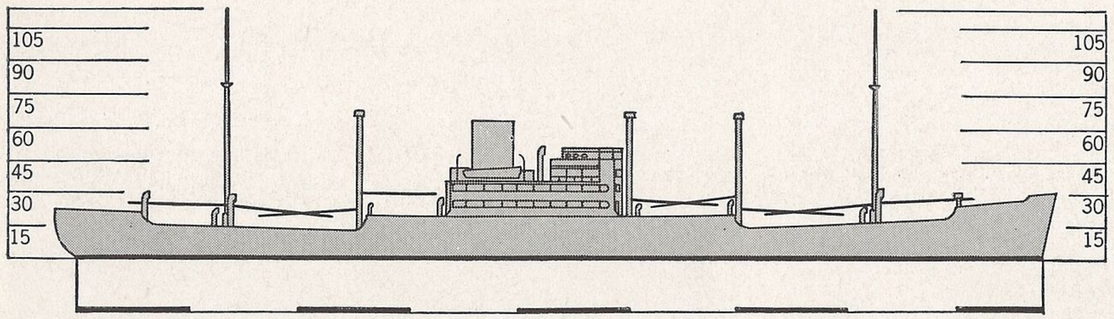
ONI 41-42 RESTRICTED

XCL—ARMED MERCHANT CRUISERS

FOR FURTHER INFORMATION SEE
ONI 208—RAIDER SUPPLEMENT

XCL-XAM

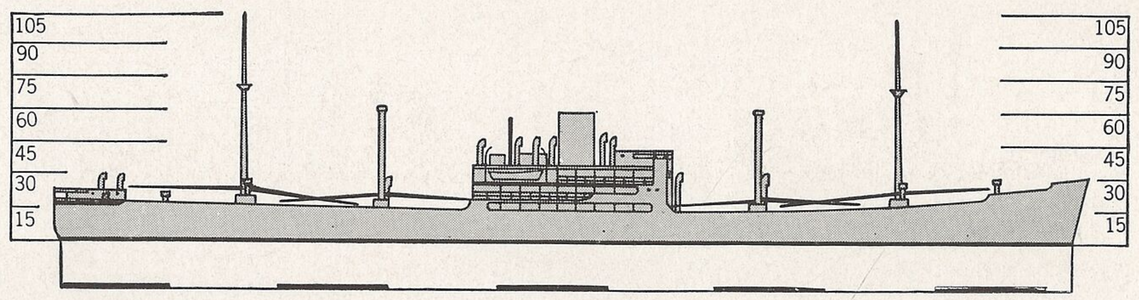
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JULY, 1943



NOSHIRO MARU—XCL 1 1934

DIMENSIONS— 470′ OA (450′ WL) x 62′ x 27′6″ (MAX.) 11′ (LIGHT)
7150 TONS (GROSS)
ARMAMENT— 2–5″ AA ? AAMG
NOMINAL HP—1851 MAX. SPEED—18.5 KNOTS

SISTERSHIP TO **APV 7—NARUTO MARU**

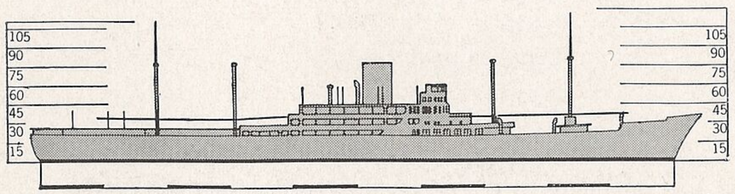


KONGO MARU CLASS—XCL 2, 10

DIMENSIONS—477′ OA (453′ WL) x 61′ x 28′ (MAX.) 12′ (LIGHT)
8500 TONS (GROSS)
ARMAMENT— 2-5″.5 AA (?) 2 AIRCRAFT CARRIED
BRAKE HP— 7000 MAX. SPEED—20 KNOTS

KONGO MARU—XCL 2 COMPLETED 1936

KIYOZUMI MARU—XCL 10 COMPLETED 1934

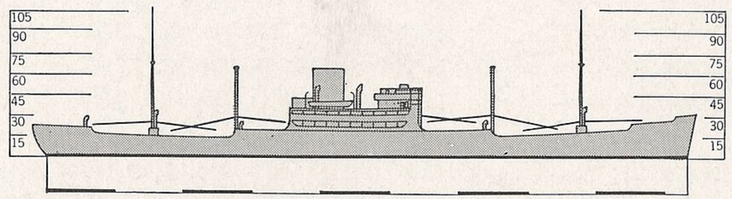


AIKOKU MARU CLASS—XCL 4, 9

DIMENSIONS— 527′ OA (498′ WL) x 66′ x 29′ (MAX.)
10,500 TONS (GROSS)
ARMAMENT— 2–5″.5 AA 2 AIRCRAFT CARRIED
DESIGNED HP—? MAX. SPEED—21.5 KNOTS

AIKOKU MARU—XCL 4 COMPLETED 1940

HOKOKU MARU—XCL 9 COMPLETED 1941



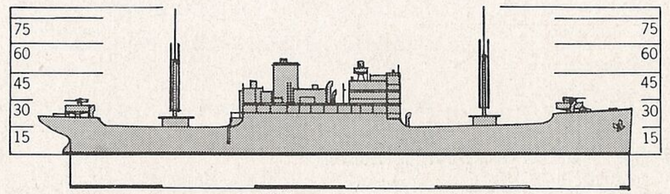
AKAGI MARU CLASS—XCL 5-7

DIMENSIONS— 485′ OA (462′ WL) x
62′ x 28′ (MAX.) 12′ (LIGHT)
7390 TONS (GROSS)
ARMAMENT— 2–5″.5 (?) 2 AIRCRAFT CARRIED
NOMINAL HP—8000
MAX. SPEED— 19 KNOTS @ 118 RPM

AKAGI— XCL 5 COMPLETED 1936

ASAKA— XCL 6 COMPLETED 1937

AWATA—XCL 7 COMPLETED 1937



1932

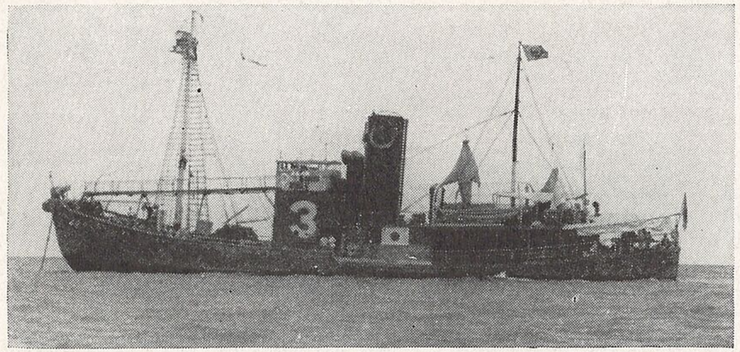
CHOKAI MARU—XAM

DIMENSIONS— 300′ (WL) 43′ x 19′6″ (MAX.)
2681 TONS (GROSS)
ARMAMENT— 2–5″.5 (?)
MACHINERY— DIESEL
NOMINAL HP—270
MAX. SPEED— 13.5 KNOTS

SEICHO MARU—XCL 8 7500 TONS GROSS
OTHER DATA UNKNOWN

PATROL CRAFT

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JULY, 1943



47 EX-WHALE "KILLER BOATS"—EMPLOYED AS OUTPOST VESSELS, NET-LAYERS OR NET-TENDERS

TYPICAL CHARACTERISTICS—

LENGTH—	120′
TONNAGE—	264 (GROSS)
ARMAMENT—	1–3″ BOW
	?–AAMG
HORSEPOWER—	900–1300
MAXIMUM SPEED—	13.5 KNOTS

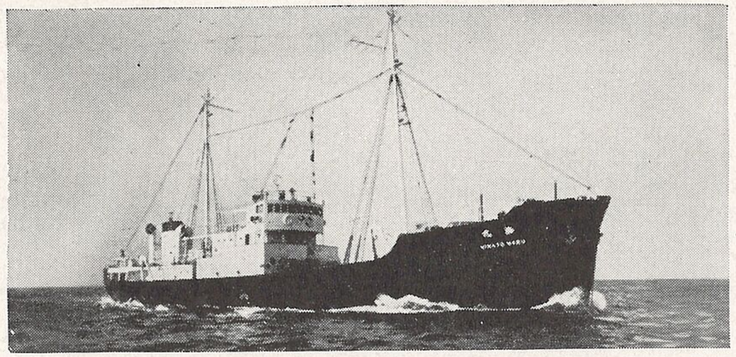
28 EX-NORWEGIAN "KILLER BOATS" — CHARACTERISTICS, APPEARANCE SIMILAR

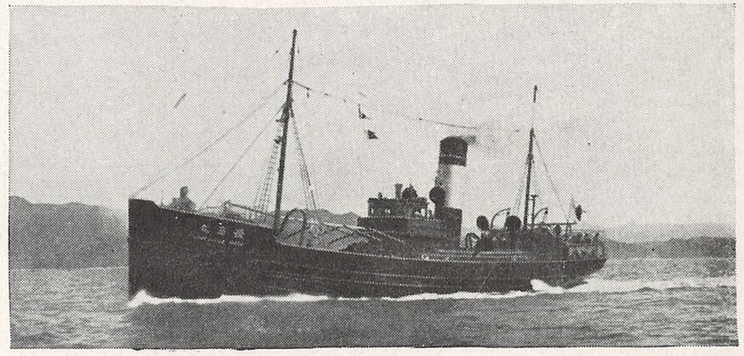
---

20 EX-TUNA BOATS

TYPICAL CHARACTERISTICS—

LENGTH—	110′
TONNAGE—	250 (GROSS)
ARMAMENT—	1–3″ BOW
	1–3″ (?) STERN
	5–20mm MG
	?–DEPTH CHARGES
MAXIMUM SPEED—	25 KNOTS

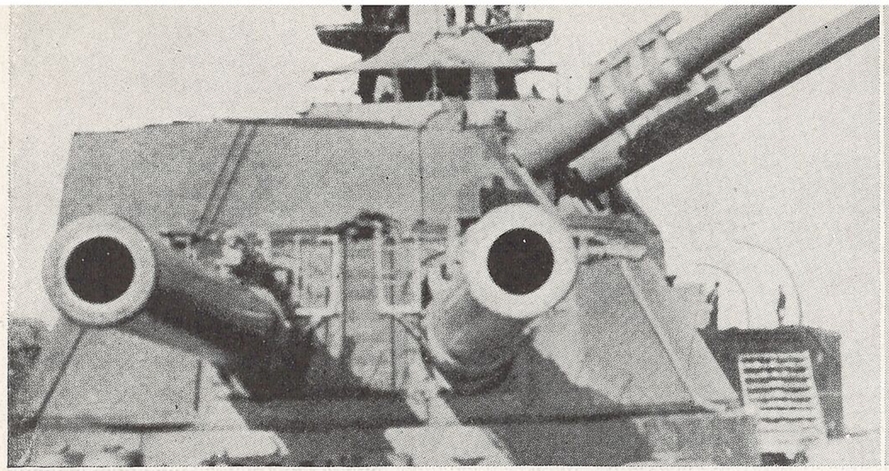




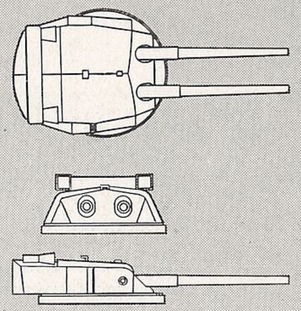
XAM—COASTAL MINESWEEPERS (CONVERTED TRAWLERS)—34 OR MORE

TYPICAL CHARACTERISTICS—TONNAGE— 220–320 (GROSS)
ARMAMENT— 1–3″ BOW—1–3″ (?) STERN—?–AAMG
MAXIMUM SPEED—12 KNOTS

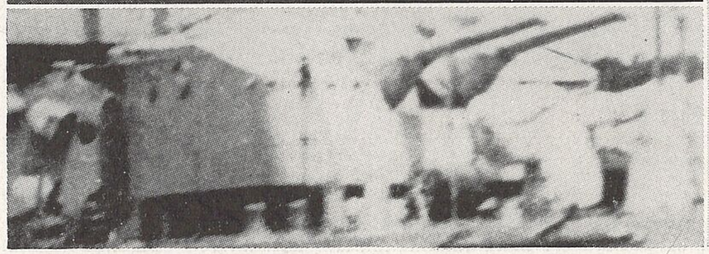
		BUILT	GROSS TONNAGE
XAM 134—	ATAKA MARU	1921	275
	AMOY MARU—No. 1–4	—	—
XAM 35, 36—	BANSHU MARU—No. 51, 52	1921	234
XAM 133—	HAGOROMO MARU—No. 133	1920	234
XAM 34—	HATAKA MARU—No. 6, 7	1922-1923	257–263
XAM 43, 44—	HINODO MARU—No 17, 18	1919	235
	KOHO MARU—No. 1, 2	—	--
XAM 31, 32—	MISAGO MARU—No. 1, 3	1920–21	265
XAM 42—	RANSAN MARU	—	—
XAM 45—	RIKUZEN MARU	1920	221
XAM 46—	TAMURE MARU	1920	235
XAM 23—	TAIKO MARU	—	—
XAM 132—	TAKASAGO MARU	1921	275
XAM 163, 164, 136—	TAMASONO MARU—No. 1–3	1920	316
XAM 41—	TSUKUSHI MARU	1920	220
XAM 131—	TORISHIMA MARU	1922	256
XAM 162—	YOSHIDO MARU	1920	220
XAM 161—	SONOBE MARU	1920	220
	TAME MARU—No. 3. 5	1936	258
	CHOKAI MARU—(SEE XCL–XCM)	1932	2658
XAM 101-104—	NO DATA		



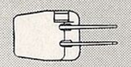
BATTLESHIPS



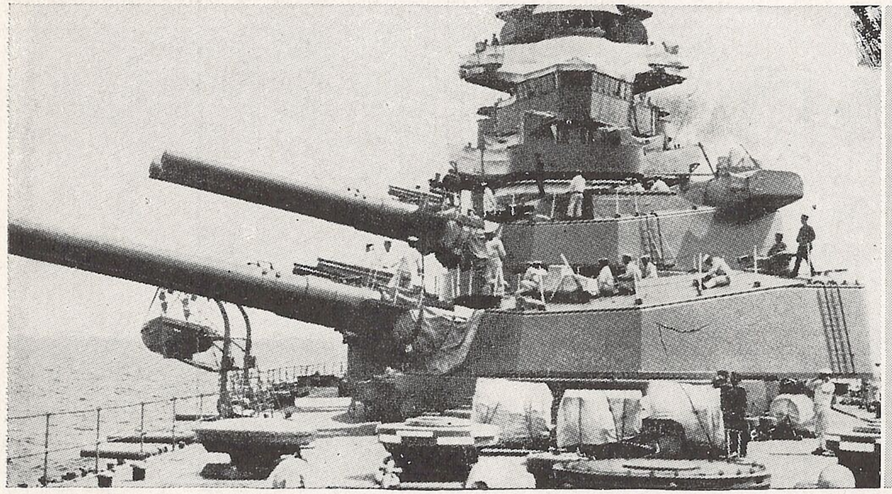
16″ TURRET



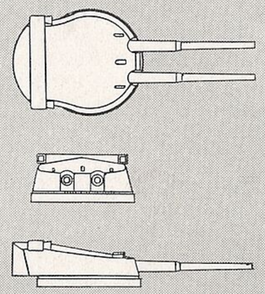
JAPANESE NAVAL ORDNANCE
ONI 41-42 — RESTRICTED

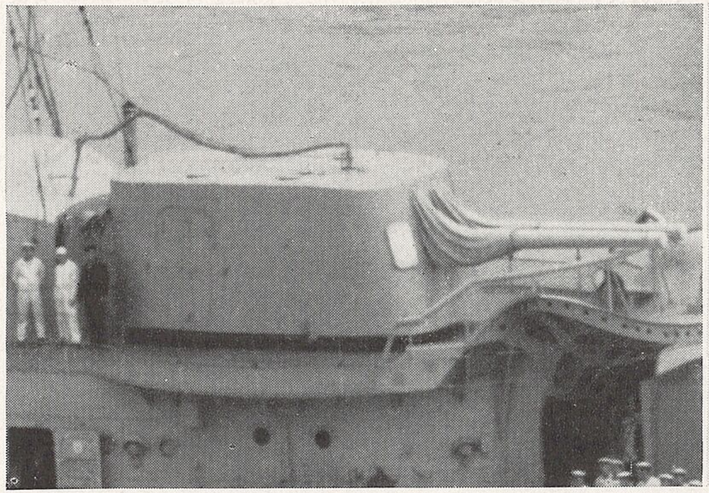


5″ GUN SHIELD— DESTROYERS

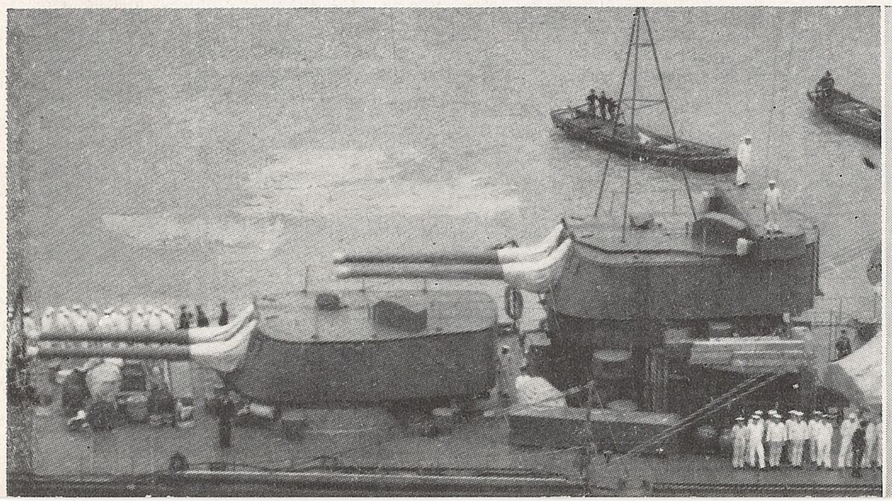


BATTLESHIPS
14″ TURRET

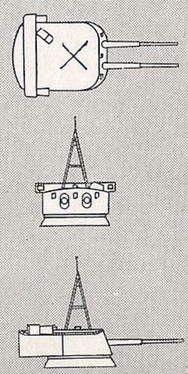


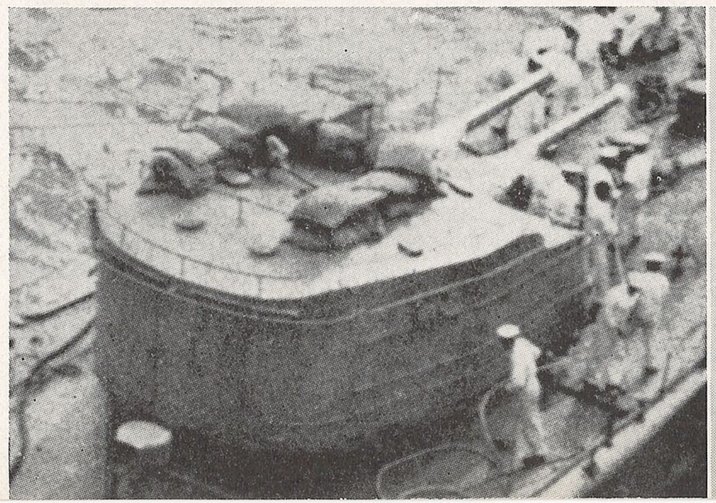


CL YUBARI
5″5 GUN SHIELD

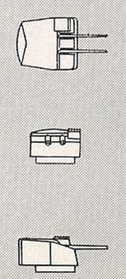


HEAVY CRUISERS
8″ TURRET





DESTROYERS
5″ GUN SHIELD



JAPANESE NAVAL ORDNANCE

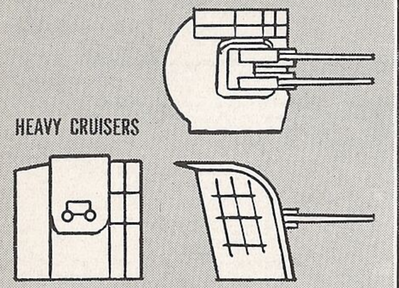
DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—JULY, 1943

SHIPS AND NUMBER OF ARMAMENT	NOMINAL BORE	CALIBER	ACTUAL BORE	WEIGHT PROJ. POUNDS	MUZZLE VELOCITY FT./SEC.	MAXIMUM ELEVATION
BB—TOSA, MUSASHI, OWARI, YAMATO—*9*	16″		16″ ?			
BB—NAGATO CLASS—*8*	16″	45	16″	2,205	2,592	35°
BB—ISE, FUSO CLASSES—*12*, KONGO CLASS—*8*	14″	45	14″	1,400	2,592	35°
CA—AOBA CLASS—*6*, TONE CLASS—*8*, NACHI, ATAGO, MOGAMI—*10*	8″	50	7.87″	254	2,789	45°
OCA—IWATE CLASS, YAKUMO—*4*	8″	40	7.87″	100	2,580	35°
BB—KONGO CLASS—*14*, FUSO CLASS—*16*	6″	50	5.9″	100	2,789	45°
OCA—IWATE CLASS, YAKUMO—*8*	6″	40	5.9″	84	2,296	20°
BB—ISE CLASS—*16*, NAGATO CLASS—*18*, CV—HOSHO—*4*, CVS—KAMOI—*2* CL—TENRYU, KATORI CLASSES—*4*, KUMA, NATORI, SENDAI CLASSES—*7* CL—YUBARI—*6*, SS—I 1-4, I 7, 8—*2*, I 9-41, I 121-124—*1*	5.5″	50	5.5″	63	2,789	45°
BB—KONGO, FUSO, ISE, NAGATO CLASSES—*8* CV—SHOKAKU, HITAKA CLASSES—*16*, CVS—CHITOSE, MIZUHO CLASSES—*4* CA—NACHI, MOGAMI, TONE CLASSES—*8*, CL—KATORI CLASS—*2* DD—TERATSUKI CLASS—*8*, ASASHIO, FUBUKI CLASSES—*6*, HATSUHARU, SHIGURE CLASSES—*5* SS—I 5, 6—*1*	5″	50	5.12″	45	2,900	AA–85°
CVS—NOTORO—*2*, CA—FURUTAKA, AOBA, ATAGO CLASSES—*4*, NACHI CLASS—*8*	4.7″	50	4.72″	45	3,018	85°
DD—KAMIKAZE, MUTSUKI CLASSES—*4*	4.7″	50	4.72″	45	2,998	45°
DD—MINEKAZE CLASS—*4*, WAKATAKE, MOMI CLASSES—*3*	4.7″	45	4.72″	45	2,772	45°
SS—I 51-64, I 101, 104, I 171-175, I 179-185, RO 30-32—*1*	4.7″	40	4.72″		2,165	20°
SS—I 56, 66, I 78-82, I 168-170—*1*	4″	40	3.9″	12.5		
CV—HOSHO—*2*, CVS—CHITOSE CLASS—*4*, KAMOI, NOTORO—*2* CA—TONE CLASS—*8*, MOGAMI CLASS—*4*, OCA—IWATE CLASS, YAKUMO—*1* CL—TENRYU CLASS, YUBARI—*1*, KUMA, SENDAI CLASSES—*2* NATORI CLASS—*3* SS—RO 33-37, RO 57-59—*1*	3.15″	40	3.15″		2,231	AA–85°
OCA—IWATE CLASS, YAKUMO—*4*, SS-RO 60-68, RO 100-103—*1*	3″	25	2.97″			

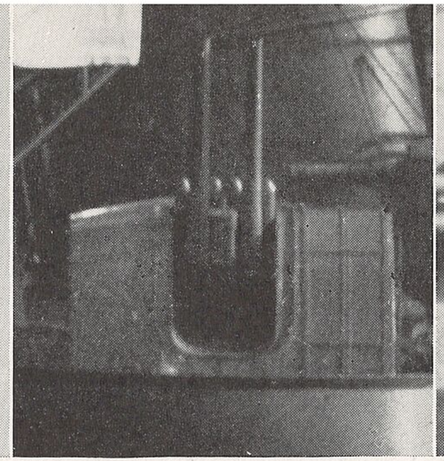
RANGE AT 20° YDS.	RANGE AT 25° YDS.	RANGE AT 30° YDS.	RANGE AT 35° YDS.	MAXIMUM SURFACE RANGE YDS.	MAXIMUM AA CEILING FT.	RATE OF FIRE PER MIN.	A. P. PENETRATION IN INCHES AT 90°					
							5,000 YDS.	10,000 YDS.	15,000 YDS.	20,000 YDS.	25,000 YDS.	30,000 YDS.
26,900	30,500	33,600	36,000	36,000					17.9	14.4	11.9	10.1
24,300	27,500	30,000	31,950	31,950				16.6	12.8	9.8	7.8	6.5
23,400	26,100	28,400	30,300	32,600				8.7	6.2	4.6	3.5	2.8
16,000	17,800	19,300	20,640	20,640		1.2	8.6	4.8	3.3	2.5		
17,300	19,300	20,900	22,100	23,550		6	6.9	3.8	2.6	1.9		
14,200				14,200		8	5.0	3.0	2.2			
17,300	19,100	20,700	21,900	23,500		12	6.6	3.7	2.5	1.8		
16,200	17,900	19,350	20,350	21,030	33,000		5.3	2.8	1.8	1.5		
13,820	15,200	16,300	17,200	17,900	25,000				1.4			
14,800	16,300	17,500	18,450	19,400			4.2	2.0	1.2			
13,390	14,790	15,900	16,679	17,580			3.6	1.7				
10,800						8	2.5	1.5				
9,000	10,000	10,700	11,250	11,600	20,000		1.1	.6				
			8,000									

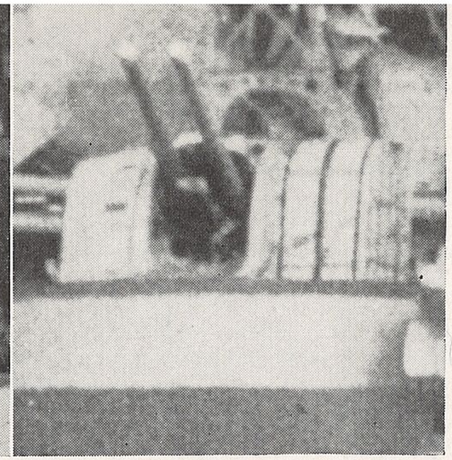
JAPANESE NAVAL ORDNANCE
ONI 41-42 — RESTRICTED.

HEAVY CRUISERS



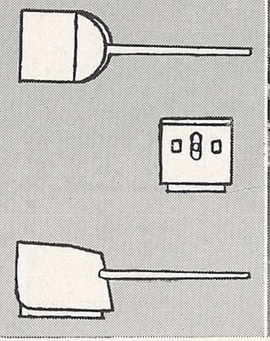
5" AA SHIELDED MOUNT

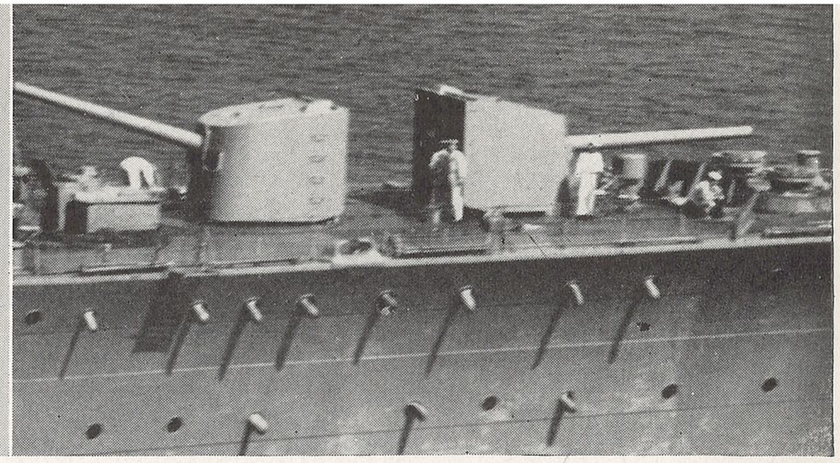




LIGHT CRUISERS

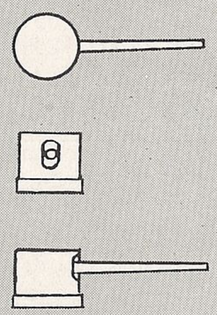
5"/5 GUNSHIELD

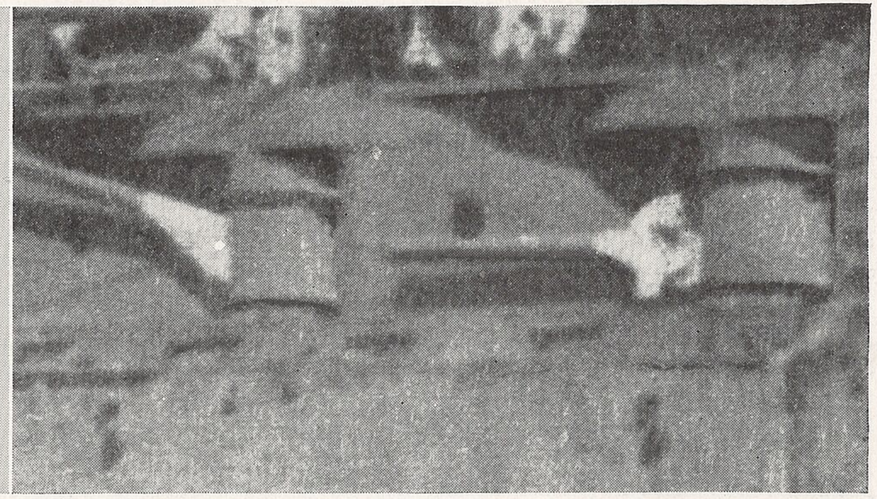




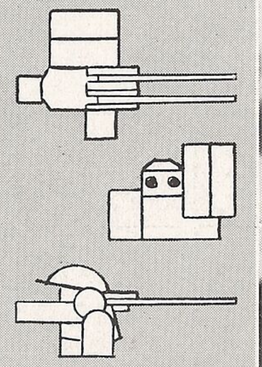
BATTLESHIPS

5"/5 CASEMATES

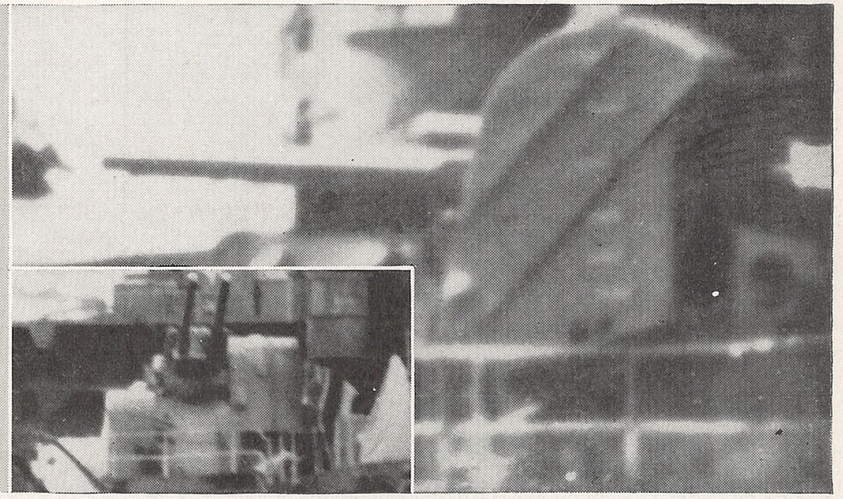




SEAPLANE TENDERS

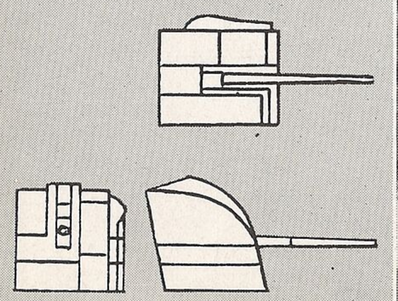


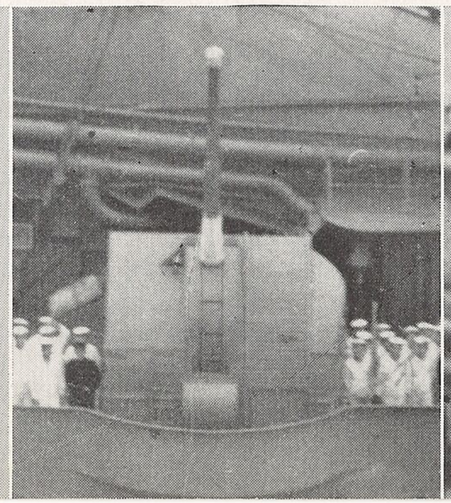
5" AA SHIELDED MOUNT

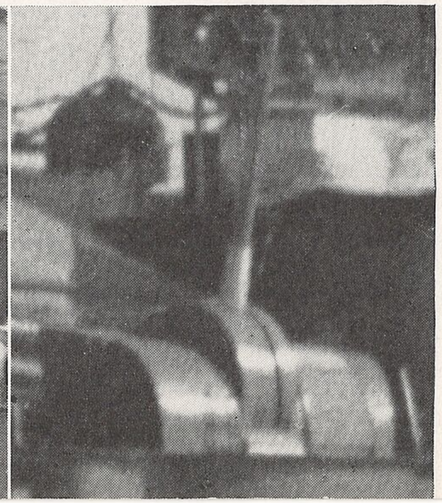


HEAVY CRUISERS

5" AA SHIELDED MOUNT

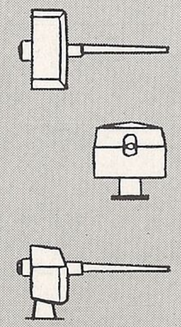


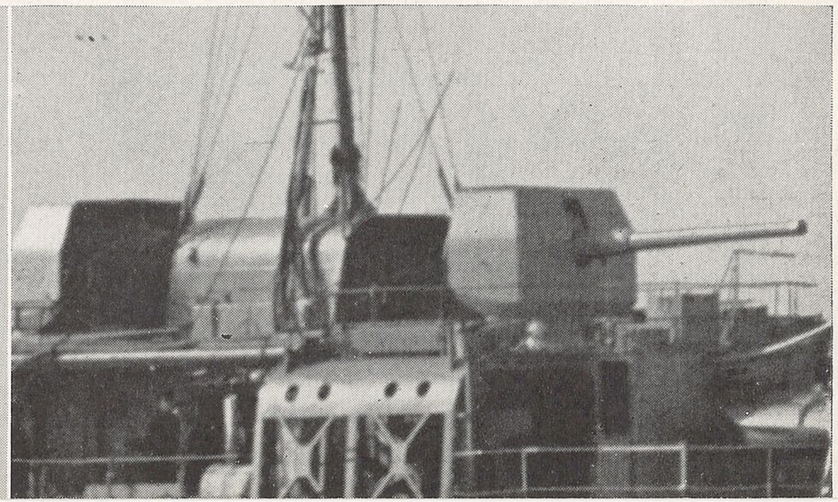




DESTROYERS, TB, AM

4"/7 GUNSHIELD





ONI 41-42 RESTRICTED

RANGE TABLE

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—OCTOBER, 1942

ESTIMATION OF RANGE BY OBSERVING THE AMOUNT OF SHIP SEEN ABOVE OR BELOW THE HORIZON.

EXPLANATION—TABLE OF DISTANCES OF SEA HORIZON.

THE DISTANCE CORRESPONDING TO THE POSITION AT WHICH THE HORIZON LINE CUTS THE SHIP PROFILE SHOULD BE FILLED IN FROM THE TABLE FOR THE OBSERVER AS FOLLOWS:

THE COLUMN "SHIP BEYOND THE HORIZON" SHOULD SHOW THE SUM OF THE DISTANCES OF THE SEA HORIZON (a) FOR HEIGHT OF EYE, (b) FOR HEIGHTS OF THE RESPECTIVE HORIZON LINES BEHIND THE PROFILE.

THE COLUMN "HORIZON BEYOND THE SHIP" SHOULD SHOW THE DIFFERENCE OF THESE TWO DISTANCES.

EXAMPLE—THE OBSERVER'S HEIGHT OF EYE IS 79 FEET. A SHIP IS SIGHTED BEYOND THE HORIZON WITH THE HORIZON LINE CUTTING ITS PROFILE AT A POINT 15 FEET ABOVE THE WATERLINE.

DISTANCE OF SEA HORIZON FOR 79′=20,610 YDS.
DISTANCE OF SEA HORIZON FOR 15′= 8,980 YDS.
SUM=RANGE OF SHIP =29,590 YDS.

HEIGHT IN FEET	DISTANCE OF SEA HORIZON	HEIGHT IN FEET	DISTANCE OF SEA HORIZON	HEIGHT IN FEET	DISTANCE OF SEA HORIZON	HEIGHT IN FEET	DISTANCE OF SEA HORIZON	HEIGHT IN FEET	DISTANCE OF SEA HORIZON	HEIGHT IN FEET	DISTANCE OF SEA HORIZON
1	2,320	21	10,630	41	14,840	61	18,110	81	20,870	101	23,300
2	3,280	22	10,880	42	15,020	62	18,260	82	20,990	102	23,420
3	4,020	23	11,120	43	15,200	63	18,400	83	21,120	103	23,530
4	4,640	24	11,360	44	15,380	64	18,550	84	21,250	104	23,640
5	5,190	25	11,590	45	15,550	65	18,690	85	21,380	105	23,760
6	5,680	26	11,820	46	15,720	66	18,840	86	21,500	106	23,870
7	6,140	27	12,050	47	15,890	67	18,980	87	21,630	107	23,980
8	6,560	28	12,270	48	16,060	68	19,120	88	21,750	108	24,090
9	6,960	29	12,490	49	16,230	69	19,260	89	21,870	109	24,200
10	7,330	30	12,700	50	16,400	70	19,400	90	21,990	110	24,320
11	7,690	31	12,910	51	16,560	71	19,540	91	22,120	111	24,430
12	8,030	32	13,120	52	16,720	72	19,670	92	22,240	112	24,540
13	8,360	33	13,320	53	16,880	73	19,810	93	22,360	113	24,650
14	8,680	34	13,520	54	17,040	74	19,940	94	22,480	114	24,750
15	8,980	35	13,720	55	17,200	75	20,080	95	22,600	115	24,860
16	9,280	36	13,910	56	17,350	76	20,210	96	22,720	116	24,970
17	9,560	37	14,100	57	17,500	77	20,340	97	22,830	117	25,080
18	9,840	38	14,290	58	17,660	78	20,480	98	22,950	118	25,180
19	10,110	39	14,480	59	17,810	79	20,610	99	23,070	119	25,290
20	10,370	40	14,670	60	17,960	80	20,740	100	23,180	120	25,400

ERRATA

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—MARCH, 1943

NO.	DATE	SOURCE	SHIP	AMENDMENTS
1	1/43	OP 16– P 2	DUGUAY-TROUIN CL–6	SHIP ILLUSTRATED IS LAMOTTE–PICQUET, CL 8, A UNIT OF THE DUGUAY–TROUIN CLASS
2	9/9/43	OP 16– P 2	DD UN NO. 1	Information received by the Division of Naval Intelligence since issue of ONI 41-42 jacket dated March, 1943, covering appearance of ship referred to as DD UN No. 1 (destroyer unknown, number one) confirms previous reports that this vessel is one of the TERUTSUKI Class. The designation DD UN No. 1 will, therefore, be dropped in future ONI recognition publications, and ships built to this design will be designated as belonging to the TERUTSUKI Class (formerly spelled TERATSUKI). This class is believed to have included AKITSUKI, SUZUTSUKI, TERUTSUKI, HATSUTSUKI, WAKATSUKI and ARAZUKI. Additional information has confirmed the general accuracy of the profile and plan developed by the Division of Naval Intelligence and previously published in ONI serial F–20:3–42 (November 30, 1942) and in ONI 41-42. Further information indicates the following corrections and additions to data on these ships previously issued in ONI 41-42 and ONI 222.

TERUTSUKI (**DD 111**) BUILT—Mitsubishi Yard, Nagasaki.
COMMISSIONED—August 2, 1942.

ARMAMENT—

4 TWIN MOUNTS, dual purpose max. elevations 90°, train 180°.

RANGE—Estimated as being in excess of 16,000 yards.

MAIN BATTERY—Caliber has been reported as 3″.94?

It is possible that these guns may be 5″/50's.

2–25 mm. AA TWIN MOUNTS

2 LIGHT MACHINE GUNS

1 QUADRUPLE TORPEDO TUBE MOUNT.

2 TWIN TUBE DEPTH CHARGE THROWERS, ASDIC GEAR FITTED.

All these ships are provided with DEGAUSSING EQUIPMENT and are believed to lack MINESWEEPING, PARAVANE OR RADAR GEAR.

COMPLEMENT—260–300.

BRIDGE, TURRET, TORPEDO TUBE PLATING—Believed to be unusually light.

ERRATA

DIVISION OF NAVAL INTELLIGENCE—IDENTIFICATION AND CHARACTERISTICS SECTION—MARCH, 1943

NO.	DATE	SOURCE	SHIP	AMENDMENTS
3	9/43	OP-16- P-2	KUMA, NATORI CLASSES	AERIAL VIEWS OF KUMA AND NATORI CLASSES (PAGES 2 AND 3) HAVE BEEN INTERCHANGED.